



EcoChem, INC.
Environmental Data Quality

Transmittal

DATE: February 12, 2009

PROJECT NO.: C22501-7

TO: Steve Perrigo
Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005
(425) 649-7538

FROM: Chris Ransom
EcoChem, Inc.
710 Second Avenue, Suite 660
Seattle, Washington 98104
(206) 233-9332 ext. 106

VIA: USMail

WE ARE SENDING THE FOLLOWING MATERIALS:

Data validation report for Quendall Terminal

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EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

Port of Seattle BNSF ROW - Quendall Terminal

Prepared for:

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, Washington 98005

Prepared by:

EcoChem, Inc.
710 Second Avenue, Suite 660
Seattle, Washington 98104

EcoChem Project: C22501-7

February 9, 2009

Approved for Release:



Chris Ransom
Project Manager
EcoChem, Inc.

PROJECT NARRATIVE

Basis for the Data Validation

This report summarizes the results of the full (Level IV) validation performed on water, soil, and sediment samples and the associated field and laboratory quality control samples collected for the Port of Seattle BNSF Right of Way project.

The samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. The analytical methods and EcoChem project chemists are listed in the table below.

ANALYSIS METHODS AND ECOCHEM CHEMISTS

Analysis	Method	Primary Review	Secondary Review
Semivolatile Organic Compounds (SVOC)	EPA SW8270D	Jennifer Newkirk	Christine Ransom
Polynuclear Aromatic Hydrocarbons (PAH)	EPA SW8270D-SIM	Jennifer Newkirk	Christine Ransom
PCB Aroclors	EPA SW8082	Melissa Swanson	Christine Ransom
Pesticides	EPA SW8081A	Melissa Swanson	Christine Ransom
Herbicides	EPA SW8151A	Melissa Swanson	Christine Ransom
Diesel Range Hydrocarbons	NWTPH-Dx	Linda Holz	Christine Ransom
Gasoline Range Hydrocarbons and BTEX Compounds	NWTPH-Gx, SW8121B	Linda Holz	Christine Ransom
Metals	EPA SW6020, SW7471A	Linda Holz	Christine Ransom
Conventionals (turbidity, percent solids)	EPA 180.1, 160.3	Linda Holz	Christine Ransom

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the project quality assurance project plan (QAPP) *Port of Seattle, Rail Acquisition Study – Quendall Segment Right of Way* (Aug 8, 2008), and *National Functional Guidelines for Organic Data Review* (USEPA 1999) and *Inorganic Data Review* (1994,2004).

Following the **Summary of Findings**, a **Sample Index** and detailed validation reports are grouped by Transect or Boring event. Data Qualifier Definitions and Criteria Tables are included in **Appendix A**. **Appendix B** contains the Qualified Data Summary Table. **Appendix C** contains communication records. Data validation worksheets are kept on file at EcoChem.

SUMMARY OF FINDINGS

Overall, the data were acceptable. Out of a total of 4955 analytical results, one result for dinoseb was rejected, 149 results were estimated (J/UJ), and five results were qualified as not-detected (U) at an elevated reporting limit. Completeness for this data set is 99.8%. More than one set of results were reported for several samples due to re-extractions and necessary dilutions. In order to only have one result per analyte for each sample, data that should not be used were labeled do-not-report (DNR). Completeness is unaffected by the assigning of DNR flags.

Data quality issues that resulted in the qualification of data are noted below.

Baxter Mill Transect B1

This transect consisted of 11 soil samples. One set of field replicates, B1-A-1.0 and DS-1, was submitted.

SVOC: The reporting limits for benzyl alcohol were estimated (UJ) in seven samples due to a continuing calibration (CCAL) percent difference (%D) outlier which indicated a low bias in the results.

NWTPH-Dx: The diesel range organic results for samples B1-A-1.0 and DS-1 were estimated (J) based on a field precision outlier.

Metals: There were no quality control issues that resulted in qualification of data.

Quendall Terminal North Transect Q1

This transect consisted of one surface water, one sediment, and 13 soils. One set of field replicates, Q1-D-23.0 and SD-2, was submitted.

SVOC: The benzoic acid result for Sample Q1-D-3.5 was estimated (UJ) due to a low matrix spike (MS) recovery. The results for eight analytes (benzo(a)anthracene, benzo(b)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, benzo(a)pyrene, benzo(g,h,i)perylene, fluoranthene, and pyrene) in Samples Q1-D-23.0 and SD-2 were estimated (J) based on field precision outliers.

Pesticides: There were no quality control issues that resulted in qualification of data.

PCB: There were no quality control issues that resulted in qualification of data.

Herbicides: The dinoseb result for Sample Q1-Sed was rejected based on laboratory control sample and MS recoveries less than 10%.

NWTPH-Dx: The diesel range organic and motor oil results for Samples Q1-D-23.0 and SD-2 were estimated (J) based on field precision outliers.

NWTPH-G: There were no quality control issues that resulted in qualification of data.

BTEX: There were no quality control issues that resulted in qualification of data.

Metals: There were no quality control issues that resulted in qualification of data.

Conventionals: There were no quality control issues that resulted in qualification of data.

Quendall Terminal South Transect Q2 Quendall Terminal South

This transect consisted of one groundwater and 14 soils. One set of field replicates, Q2-D-W and WD-1, was submitted.

SVOC: All results for benzoic acid were estimated (UJ) based on a low laboratory control sample (LCS) recovery.

Pesticides: The reporting limits for delta-BHC in Sample Q2-D-3.5 and delta-BHC, aldrin, and gamma chlordane in Sample Q2-D-5.0 were elevated due to matrix interference.

PCB: The reporting limit for Aroclor 1248 in Sample Q2-D-5.0 was elevated due to matrix interference.

NWTPH-Dx: The diesel range organic result for sample Q2-A-1.0 was estimated (J) based on a low MS recovery and poor laboratory duplicate precision.

NWTPH-G: There were no quality control issues that resulted in qualification of data.

BTEX: There were no quality control issues that resulted in qualification of data.

Metals: The copper results for all soil samples were estimated (J) based on a low MS recovery. All zinc results for the soil samples were estimated (J) based on low MS recovery and poor duplicate precision.

Conventionals: There were no quality control issues that resulted in qualification of data.

Quendall Terminal Transect Q3 Quendall Terminal

This transect consisted of two soil samples.

SVOC: There were no quality control issues that resulted in qualification of data.

NWTPH-Dx: There were no quality control issues that resulted in qualification of data.

Metals: There were no quality control issues that resulted in qualification of data.

Quendall Terminal Borings

A total of 59 soils and five groundwaters were submitted for the boring sampling. Three sets of field replicates were submitted for the soils: Q4-15.0 & SD-3, Q13-22 & SD-4, and Q15-16.0 & SD-5. One set of field replicates, Q12-W and WD-2, was submitted for the groundwaters.

PAH: The water samples required re-extraction as there were no recoveries for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD). Samples Q4-W, Q12-W, Q14-W, Q17-W, and WD-2 were all re-extracted past the holding time. All results for these samples were estimated (J/UJ). There was insufficient sample remaining to re-extract sample Q9-W. All results for this sample were estimated (J) based on the LCS/LCSD recoveries.

For field replicates Q4-15.0 & SD-3, the dibenzofuran results were estimated (J) based on a precision outlier. For field replicates Q12-W and WD-2, the results for acenaphthene, naphthalene, and pyrene were estimated (J).

NWTPH-Dx: The diesel range organics and motor oil results were estimated (UJ) based on a surrogate recovery outlier.

NWTPH-G: There were no quality control issues that resulted in qualification of data.

BTEX: The benzene results for field replicates Q4-15.0 & SD-3 were estimated (J) based on a precision outlier.

Metals: The laboratory analyzed the groundwater samples by a method that resulted in much higher reporting limits than called for in the QAPP. The samples were re-analyzed by an alternate method in order to achieve the necessary reporting limits.

SAMPLE INDEX
POS BNSF ROW
Baxter Mills - Transect B1

Sample ID	Lab Sample ID	Matrix	SVOC	TPH-DX	Metals
B1-A-1.0	08-21932-NM59A	SOIL	X	X	X
B1-A-3.5	08-21933-NM59B	SOIL	X	X	X
B1-A-5.0	08-21934-NM59C	SOIL	X	X	X
B1-A-10.0	08-21935-NM59D	SOIL	X		
B1-A-15.0	08-21936-NM59E	SOIL	X		
B1-A-20.0	08-21937-NM59F	SOIL	X	X	X
B1-A-24.0	08-21938-NM59G	SOIL	X	X	X
B1-B-1.0	08-21939-NM59H	SOIL	X	X	X
B1-B-3.0	08-21940-NM59I	SOIL	X	X	X
B1-B-5.0	08-21941-NM59J	SOIL	X	X	X
B1-C-5.0	08-21942-NM59K	SOIL	X	X	X
DS-1	08-21943-NM59L	SOIL	X	X	X

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Baxter Mill Transect B1
Semivolatile Organic Compounds by Method SW8270D

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All samples received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM59	12 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

The Chain of Custody (COC) indicated that Samples B1-A-10.0, B1-A-15.0 and B1-B-5.0 were to be placed on hold. However, these samples were analyzed and data reported. No action was taken, other than to note the discrepancy.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%).

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | | |
|---|---------------------------------------|--|
| 1 | Holding Times and Sample Preservation | Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| | GC/MS Instrument Performance Check | 1 |
| | Initial Calibration (ICAL) | Field Replicates |
| | | Internal Standards |
| 2 | Continuing Calibration (CCAL) | Target Analyte List |
| | Laboratory Blanks | Reporting Limits |
| | Field Blanks | 2 |
| | Surrogate Compounds | Compound Identification and Reported Results |
| | Laboratory Control Samples (LCS/LCSD) | 1 |
| | | Calculation Verification |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 6.8° to 11.6°C . Several coolers were received at temperatures less than the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 1.8°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Continuing Calibration

All relative response factor (RRF) values were acceptable. The continuing calibration (CCAL) percent difference (%D) values were within the $\pm 25\%$ control limits, with the exceptions noted below. When the %D indicated a low bias, positive results and reporting limits were estimated (J/UJ-5B). When the %D outlier indicated a high bias, positive results were estimated (J-5B). No action was taken for non-detects. The following outliers were noted:

SDG NM59: CCAL 9/06/08: benzyl alcohol (low bias); 2,4-dinitrophenol (high bias)
CCAL 9/11/08: 2,4-dinitrophenol (high bias)

Field Replicates

The following acceptance criteria were used to evaluate field precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

One set of field replicates, B1-A-1.0 and DS-1, was submitted with this SDG. All field precision criteria were met.

Compound Identification and Reported Results

Samples were screened in order to determine necessary dilutions. In some cases, one or more analytes still exceeded the instrument linear range and required additional dilution. The results for the compounds in the original analyses that were greater than the calibration range were labeled do-not-report (DNR-20). Results for all other compounds in additional dilutions were labeled do not report (DNR-11). The samples requiring additional dilutions are listed below:

SDG NM59: B1-B-1.0 (20x)

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample, and matrix spike/matrix spike duplicate (MS/MSD) recoveries. Precision was also acceptable as demonstrated by the field replicate and MS/MSD RPD values.

Data were qualified as estimated based on CCAL %D outliers.

Data were labeled do-not-report (DNR) to indicate which result, from multiple dilutions and analyses, should be used. A usable result remains for all analytes in all samples.

Data labeled DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Baxter Mill Transect B1
Diesel and Residual Range Hydrocarbons by NWTPH-Dx

This report documents the review of analytical data from the analyses soil samples and the associated field and laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM59	9 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

NWTPH-Dx results were reported for the following samples, although no analyses were requested on the chain of custody: B1-A-5.0, B1-B-1.0, B1-B-3.0, and B1-C-5.0.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Receipt		Matrix Spike/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration (ICAL)	2	Field Replicates
	Continuing Calibration (CCAL)		Reporting Limits
	Blanks (Method and Field)		Compound Identification
	Surrogate Compounds		Sample Results
	Laboratory Control Samples (LCS/LCSD)	1	Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Receipt

Several coolers were received at temperatures that were outside of the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 11.6°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

SDG NM59: One set of field replicates, samples B1-A-1.0 and DS-1, were submitted with this SDG. The RPD for diesel (56.0%) exceeded the control limit. The diesel results for these two samples were estimated (J-9).

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and matrix spike/matrix spike duplicate (MS/MSD) recoveries. Precision was also acceptable as demonstrated by the LCS/LCSD, MS/MSD, and field replicate RPD values, except as noted above.

Data were estimated based on a field replicate RPD outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Baxter Mill Transect B1
Metals by Methods SW6010B, EPA 200.8, and SW7471A
and Total Solids by Method 160.3

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM59	9 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the exception noted below. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

- | | | |
|---|---------------------------------------|----------------------------|
| 1 | Holding Times and Sample Preservation | Field Blanks |
| | Initial Calibration | 1 Field Replicates |
| | Calibration Verification | Interference Check Samples |
| | CRDL Standards | Serial Dilutions |
| | Laboratory Blanks | ICPMS Internal Standards |
| | Laboratory Control Samples (LCS) | Reported Results |
| | Matrix Spikes (MS) | 1 Calculation Verification |
| | Laboratory Duplicates | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate field precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

One set of field replicates, Samples B1-A-1.0 and DS-1, was submitted with this SDG. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory and field replicate RPD values indicated acceptable precision. Accuracy was also acceptable, as demonstrated by the matrix spike and laboratory control sample recoveries.

No data were qualified for any reason. All data, as reported, are acceptable for use.

SAMPLE INDEX
POS BNSF ROW
Quendall Terminal North -Transect Q1

Sample ID	Lab Sample ID	Matrix	SVOC	Pest	PCB	TPH-Dx	TPH-G BTEX	Herbicides	Metals	Turbidity
Q1-A-1.0	08-21754-NM43A	SOIL	X			X			X	
Q1-A-5.0	08-21755-NM43B	SOIL	X						X	
Q1-B-1.0	08-21756-NM43C	SOIL	X			X			X	
Q1-B-5.0	08-21757-NM43D	SOIL	X						X	
Q1-C-2.5	08-21758-NM43E	SOIL	X			X			X	
Q1-C-5.0	08-21759-NM43F	SOIL	X			X			X	
Q1-D-2.0	08-21760-NM43G	SOIL		X	X				X	
Q1-D-3.5	08-21761-NM43H	SOIL	X	X	X				X	
Q1-D-5.0	08-21762-NM43I	SOIL	X						X	
Q1-D-9.0	08-21763-NM43J	SOIL	X			X	X		X	
Q1-D-15.0	08-21764-NM43K	SOIL	X			X	X		X	
Q1-D-23.0	08-21765-NM43L	SOIL	X			X	X		X	
Q1-D-30.0	08-21766-NM43M	SOIL	X			X	X		X	
SD-2	08-21767-NM43N	SOIL	X			X	X		X	
Q1-D-W	08-21768-NM43O	WATER	X			X	X		X	X
Q1-Sed	08-21769-NM43P	SED	X			X		X	X	
TRIP BLANK	08-21770-NM43Q	WATER					X			

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Semivolatile Organic Compounds by Method SW8270D

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated laboratory and field quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All samples received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Groundwater, 13 soil, 1 sediment

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%).

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | | | |
|---|---------------------------------------|---|--|
| 1 | Holding Times and Sample Preservation | 2 | Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| | GC/MS Instrument Performance Check | 2 | Field Replicates |
| 1 | Initial Calibration (ICAL) | | Internal Standards |
| | Continuing Calibration (CCAL) | | Target Analyte List |
| | Laboratory Blanks | | Reporting Limits |
| | Field Blanks | 2 | Compound Identification and Reported Results |
| | Surrogate Compounds | 1 | Calculation Verification |
| 1 | Laboratory Control Samples (LCS/LCSD) | | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Initial Calibration

All relative response factor (RRF) values were greater than the 0.05 minimum control limit. The initial calibration (ICAL) percent relative standard deviation (%RSD) values were within the $\pm 30\%$ control limits, with the exceptions noted below. Positive results associated with %RSD outliers were estimated (J-5A). No action was taken for non-detects. The following outliers were noted:

SDG NM43: ICAL 9/12/08: 2,4-dinitrophenol (31.2%). This analyte was not detected in the associated samples, therefore no qualification of data was necessary.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) analyses were performed at the required frequency. The recovery values were within the specified control limits, with the exceptions noted below.

The LCSD %R value for hexachloroethane was less than the lower control limit. The LCS %R was acceptable, therefore no qualification of data was necessary. The relative percent difference (RPD) values for hexachloroethane and hexachlorobutadiene were greater than the control limit. No positive results were associated with these outliers; no qualification was necessary.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed at the required frequency. The MS/MSD recovery values were within the specified control limits, with the exceptions noted below. If the outliers indicated a potential high bias, associated positive results in the parent sample only were qualified as estimated (J-8). If the outliers indicated a potential low bias, positive results and reporting limits in the parent sample were estimated (J/UJ-8).

The MS/MSD RPD values were within the specified control limits, with the exceptions noted below. For RPD outliers, positive results only in parent sample are estimated (J-9). No action is taken for non-detects.

The following outliers were noted:

Sample Q1-D-3.5 MS/MSD: Benzoic acid was not detected in the MS. The MSD %R was acceptable. The MS/MSD RPD value was greater than the control limit. The benzoic acid result for the parent sample was estimated (UJ-8).

Field Replicates

The following acceptance criteria were used to evaluate field precision: the RPD control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

SDG NM43: One set of field replicates, Q1-D-23.0 and SD-2, was submitted with this SDG. The following RPD outliers were noted:

benzo(a)anthracene	57.4%	benzo(a)pyrene	53.3%
benzo(b)fluoranthene	58.1%	benzo(g,h,i)perylene	55.2%
chrysene	53.8%	fluoranthene	51.9%
indeno(1,2,3-cd)pyrene	71.2%	pyrene	50.6%

The results for these analytes in the above samples were estimated (J-9).

Compound Identification and Reported Results

Samples were screened in order to determine necessary dilutions. In some cases, one or more analytes still exceeded the instrument linear range and required additional dilution. The results for the compounds in the original analyses that were greater than the calibration range were labeled do-not-report (DNR-20). Results for all other compounds in additional dilutions were labeled do not report (DNR-11). The samples requiring additional dilutions are:

Q1-A-1.0 (10x)	Q1-B-1.0 (25x)	Q1-D-9.0 (30x)
Q1-D-15.0 (30x)	Q1-D-23.0 (30x)	SD-2 (30x)

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the field replicate, MS/MSD, and LCS/LCSD RPD values.

Data were qualified as estimated based on CCAL %D and field replicate RPD outliers.

Data were labeled do-not-report (DNR) to indicate which result, from multiple dilutions and analyses, should be used. A usable result remains for all analytes in all samples.

Data labeled DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Chlorinated Pesticides - EPA Method 8081A

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. All data received a full (Level IV) validation. Please see the Sample Index for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	2 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Holding Times and Sample Preservation	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration (ICAL)	Field Replicates
	Continuing Calibration (CCAL)	Internal Standards
	Laboratory Blanks	Compound Identification
	Field Blanks	Reporting Limits
	Surrogate Compounds	1 Calculation Verification
	Laboratory Control Samples (LCS/LCSD)	

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

The temperatures of several coolers were outside the recommended temperature range of 4°C ±2° when received at the laboratory, ranging from 6.8° to 11.6°C. The temperature outliers did not impact data quality and no data were qualified.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, matrix spike/matrix spike duplicate (MS/MSD), and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries. Precision was acceptable as demonstrated by the relative percent difference values for the LCS/LCSD and MS/MSD analyses.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
PCB Aroclors by SW846 Method 8082

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. All data received a full (Level IV) validation. Please see the Sample Index for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	2 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | |
|---|--|
| 1 Holding Times and Sample Preservation | Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| Initial Calibration (ICAL) | Field Replicates |
| Continuing Calibration (CCAL) | Internal Standards |
| Laboratory Blanks | Compound Identification |
| Field Blanks | Reporting Limits |
| Surrogate Compounds | 1 Calculation Verification |
| Laboratory Control Samples (LCS/LCSD) | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

The temperatures of several coolers were outside the recommended temperature range of 4°C ±2° when received at the laboratory, ranging from 6.8° to 11.6°C. The temperature outliers did not impact data quality and no data were qualified.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, matrix spike/matrix spike duplicate (MS/MSD), and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recovery values. Precision was also acceptable as demonstrated by the relative percent difference values for the LCS/LCSD and MS/MSD analyses.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Herbicides by EPA Method 8151A

This report documents the review of analytical data from the analyses of one soil sample and the associated laboratory quality control (QC) samples. The sample was analyzed by Analytical Resources, Inc., Tukwila, Washington. All data received a full (Level IV) validation. Please see the Sample Index for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%).

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | |
|---|--|
| 1 Holding Times and Sample Preservation | 2 Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| Instrument Breakdown Check | Field Replicates |
| Initial Calibration (ICAL) | Target Analyte List |
| Continuing Calibration (CCAL) | Reporting Limits |
| Laboratory Blanks | Compound Identification |
| 1 Surrogate Compounds | 1 Calculation Verification |
| 2 Laboratory Control Samples (LCS/LCSD) | |

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Preservation

The temperatures of several coolers were outside the recommended temperature range of 4°C ±2° when received at the laboratory, ranging from 6.8° to 11.6°C. The temperature outliers did not impact data quality and no data were qualified.

Surrogate Compounds

The recovery for the surrogate compound 2,4-dichlorophenylacetic acid (DCPA) was less than the lower control limit in QC sample LCS-090208. No qualifiers are assigned to QC samples.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed. The LCS recoveries for five analytes were less than the lower control limits. The LCSD recoveries were acceptable, therefore no action was taken. The relative percent difference (RPD) values for these five analytes were greater than the control limits. These analytes were not detected in the associated sample, therefore no qualifiers were required.

The LCS/LCSD recoveries for dinoseb were less than 10%. This analyte was not detected in the associated sample; the reporting limit was rejected (R-10)

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed at the required frequency. The MS/MSD percent recovery (%R) values were within the specified control limits, with the following exceptions:

The %R value for dinoseb in the MS was less than the lower control limit. Dinoseb was not recovered in the MSD. The result for this compound was rejected (R-8) in the parent sample.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, MS/MSD, and LCS/LCSD %R values, except as noted above. Precision was acceptable as demonstrated by the RPD values for the LCS/LCSD and MS/MSD analyses.

The dinoseb result was rejected based on MS/MSD and LCS/LCSD recoveries that were less than 10%.

Rejected data should not be used for any purpose. All other data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Diesel and Residual Range Hydrocarbons by NWTPH-Dx

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated field and laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Groundwater, 9 soil, 1 sediment

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation		Matrix Spike/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration (ICAL)	2	Field Replicates
	Continuing Calibration (CCAL)		Reporting Limits
	Blanks (Method and Field)		Compound Identification
1	Surrogate Compounds		Sample Results
	Laboratory Control Samples (LCS/LCSD)	1	Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures that were outside of the recommended range of 4°C ±2°, ranging from 1.6° to 11.6°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Surrogate Compounds

The surrogate recoveries for several samples could not be calculated due to necessary dilutions. No action was necessary.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

One set of field replicates, samples Q1-D-23.0 and SD-2 were submitted with this SDG. The RPD values for diesel (53.7%) and motor oil (51.0%) exceeded the control limit. The results for these analytes were estimated (J-9) in both samples.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and matrix spike/matrix spike duplicate (MS/MSD) recoveries. Precision was also acceptable as demonstrated by the LCS/LCSD, MS/MSD, and field replicate RPD values, except as noted above.

Data were estimated because of a field duplicate RPD outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Gasoline Range Organics by NWTPH-Gx

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Groundwater, 5 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found, with the following exception:

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Receipt	Laboratory Duplicates
	Instrument Performance Check	Laboratory Control Samples
	Initial Calibration (ICAL)	1 Field Replicates
	Continuing Calibration (CCAL)	Reported Results
	Blanks (Method and Field)	Compound Identification
	Surrogate Compounds	1 Calculation Verification (full validation only)

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Receipt

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

One set of field replicates, Samples Q1-D-23.0 and SD-2 was submitted. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample percent recovery values. Precision was acceptable as demonstrated by the RPD values for the laboratory and field replicate analyses.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT

Pinnacle GeoSciences

POS BNSF ROW - Quendall Terminal North Transect Q1

BTEX Compounds by 8021Mod

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Groundwater, 5 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation	Laboratory Control Samples (LCS/LCSD)
	Instrument Performance Check	1
	Initial Calibration (ICAL)	Field Replicates
	Continuing Calibration (CCAL)	Reported Results
	Blanks (Method and Field)	Compound Identification
	Surrogate Compounds	1
		Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures outside of the recommended range of 4°C ±2°, ranging from 1.6° to 11.6°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

One set of field replicates, Samples Q1-D-23.0 and SD-2 was submitted with this SDG. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recovery values. Precision was acceptable as demonstrated by the LCS/LCSD and field replicate RPD values.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Metals by Methods SW6010B, EPA 200.8, and SW7471A

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Groundwater, 14 soil, 1 sediment

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the exception noted below. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

The nickel results were not reported for the QC samples, although this was a target analyte for some of the samples in the preparation batch. Results were calculated from the raw data and no further action was taken.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

1	Holding Times and Sample Preservation		Laboratory Duplicates
	Initial Calibration	1	Field Replicates
	Calibration Verification		Interference Check Samples
	CRDL Standards		Serial Dilutions
1	Laboratory Blanks		ICPMS Internal Standards
	Laboratory Control Samples (LCS)		Reported Results
	Matrix Spikes (MS)	1	Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the

recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 1.8°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Laboratory Blanks

Zinc was detected in the method blank at levels greater than the method detection limit (MDL). To evaluate the effect on the sample data, an action level of five times the blank concentration was established. All associated sample results were greater than the action level, therefore no qualification of the data was necessary.

Field Replicates

The following acceptance criteria were used to evaluate field precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

One set of field replicates, Samples Q1-D-23.0 and SD-2 was submitted. There were no positive results in either sample. Field precision was acceptable.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory and field replicate RPD values indicated acceptable precision. Accuracy was also acceptable, as demonstrated by the matrix spike and laboratory control sample recoveries.

No data were qualified for any reason. All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal North Transect Q1
Turbidity by Method 180.1 and Total Solids by Method 160.3

This report documents the review of analytical data from the analyses of groundwater, sediment, and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM43	1 Groundwater, 14 soil, 1 sediment

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

1	Holding Times and Sample Preservation	Laboratory Control Samples (LCS)
	Initial Calibration	Matrix Spike (MS)
	Calibration Verification	Laboratory Replicates
1	Field Replicates	Reporting Limits
	Laboratory Blanks	1 Calculation Verification

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

One set of field replicates, Samples Q1-D-23.0 and SD-2 was submitted with this SDG. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory and field replicate RPD values indicated acceptable precision. Accuracy was also acceptable, as demonstrated by the laboratory control sample recoveries.

No data were qualified for any reason. All data, as reported, are acceptable for use.

SAMPLE INDEX
POS BNSF ROW
Quendall Terminal South -Transect Q2

Sample ID	Lab Sample ID	Matrix	SVOC	Pest	PCB	TPH-Dx	TPH-G BTEX	Metals	Turbidity
Q2-A-1.0	08-21714-NM40A	SOIL	X			X		X	
Q2-A-5.0	08-21715-NM40B	SOIL	X			X		X	
Q2-B-1.0	08-21716-NM40C	SOIL	X			X		X	
Q2-B-5.0	08-21717-NM40D	SOIL	X					X	
Q2-C-3.5	08-21718-NM40E	SOIL	X			X		X	
Q2-C-5.0	08-21719-NM40F	SOIL	X			X		X	
Q2-C-13.0	08-21720-NM40G	SOIL	X			X	X	X	
Q2-C-25.0	08-21721-NM40H	SOIL	X						
Q2-D-3.5	08-21722-NM40I	SOIL	X	X	X	X		X	
Q2-D-5.0	08-21723-NM40J	SOIL	X	X	X	X		X	
Q2-D-10.0	08-21724-NM40K	SOIL	X			X		X	
Q2-D-13.0	08-21725-NM40L	SOIL	X			X	X	X	
Q2-D-18.0	08-21726-NM40M	SOIL	X			X	X	X	
Q2-D-35.0	08-21727-NM40N	SOIL	X			X	X	X	
Q2-D-W	08-21728-NM40O	WATER					X	X	X
WD-1	08-21729-NM40P	WATER					X	X	X
TRIP BLANK	08-21730-NM40Q	WATER					X		

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
Semivolatile Organic Compounds by Method SW8270D

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All samples received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	14 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

Water samples Q2-D-W and WD-1 appeared on the Chain of Custody (COC), but were not analyzed by the laboratory.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%).

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | |
|---|--|
| 1 Holding Times and Sample Preservation | 1 Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| GC/MS Instrument Performance Check | Field Replicates |
| Initial Calibration (ICAL) | Internal Standards |
| 1 Continuing Calibration (CCAL) | Target Analyte List |
| Laboratory Blanks | Reporting Limits |
| Field Blanks | 2 Compound Identification and Reported Results |
| 1 Surrogate Compounds | 1 Calculation Verification |
| 2 Laboratory Control Samples (LCS/LCSD) | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the

recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 1.8°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Continuing Calibration

All relative response factor (RRF) values were greater than the 0.05 minimum control limit. The continuing calibration (CCAL) percent difference (%D) values were within the $\pm 25\%$ control limits, with the exceptions noted below. When the %D indicated a low bias, positive results and reporting limits were estimated (J/UJ-5B). When the %D outlier indicated a high bias, positive results were estimated (J-5B). No action was taken for non-detects. The following outliers were noted:

CCAL 9/17/08: hexachlorocyclopentadiene, 2,4-dinitrophenol, bis(2-ethylhexyl) phthalate (high bias)

Surrogates

The percent recovery (%R) values for the surrogates were within the specified control limits with the exception noted below. Several samples required dilutions greater than 10x. Surrogate recovery control limits do not apply in these cases.

The %R value for d14-p-terphenyl was less than the lower control limit in Sample Q2-D-5.0. All other surrogate recoveries were in control. One outlier per acid or base/neutral fraction is allowed, therefore no qualification was necessary for the single outlier.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) analyses were performed at the required frequency. The recovery values were within the specified control limits, with the exceptions noted below.

The LCS/LCSD R% values for benzoic acid were less than the lower control limit. Benzoic acid was not detected in the associated samples; reporting limits were estimated (UJ-10).

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed at the required frequency. The MS/MSD recovery values were within the specified control limits, with the exceptions noted below. If the outliers indicated a potential high bias, associated positive results in the parent sample only were qualified as estimated (J-8). If the outliers indicated a potential low bias, positive results and reporting limits in the parent sample were estimated (J/UJ-8).

The MS/MSD relative percent difference (RPD) values were within the specified control limits, with the exceptions noted below. For RPD outliers, positive results only in parent sample are estimated (J-9). No action is taken for non-detects.

One outlier was noted, QC Sample Q2-A-5.0, the MSD %R value for chrysene was less than the lower control limit. No qualification was necessary as the MS %R was in control.

Compound Identification and Reported Results

Samples were screened in order to determine necessary dilutions. In some cases, one or more analytes still exceeded the instrument linear range and required additional dilution. The results for the compounds in the original analyses that were greater than the calibration range were labeled do-not-report (DNR-20). Results for all other compounds in additional dilutions were labeled do not report (DNR-11). The samples requiring additional dilutions are listed below:

SDG NM40: Q2-C-13.0 (20x), Q2-C-3.5 (5x), Q2-D-5.0 (100x), Q2-D-10.0 (40x), Q2-D-13.0 (5x), Q2-D-18.0 (40x), Q2-D-3.5 (30x)

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the field replicate, MS/MSD, and LCS/LCSD RPD values.

Data were qualified as estimated based on LCS/LCSD %R outliers.

Data were labeled do-not-report (DNR) to indicate which result, from multiple dilutions and analyses, should be used. A usable result remains for all analytes in all samples.

Data labeled DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
Chlorinated Pesticides - EPA Method 8081A

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. All data received a full (Level IV) validation. Please see the Sample Index for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	2 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | | | |
|---|---------------------------------------|---|--|
| 1 | Holding Times and Sample Preservation | 1 | Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| | Initial Calibration (ICAL) | | Field Replicates |
| | Continuing Calibration (CCAL) | 1 | Internal Standards |
| | Laboratory Blanks | 2 | Compound Identification |
| | Field Blanks | 2 | Reporting Limits |
| 1 | Surrogate Compounds | 1 | Calculation Verification |
| | Laboratory Control Samples (LCS/LCSD) | | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

The temperatures of several coolers were outside the recommended temperature range of 4°C ±2° when received at the laboratory, ranging from 6.8° to 11.6°C. The temperature outliers did not impact data quality and no data were qualified.

Surrogate Compounds

The surrogate percent recovery (%R) values were acceptable, with the exceptions noted below.

The samples were analyzed at dilutions (10x and 100x), therefore no surrogate recoveries were reported. No action was taken on this basis.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Accuracy and precision were assessed using the laboratory control sample and laboratory control sample duplicate (LCS/LCSD).

Internal Standards

The recoveries of the internal standard hexabromobiphenyl were greater than the 200% control limit for Samples Q2-D-3.5 and Q2-D-5.0. There were no positive results in these samples, therefore no qualifiers were assigned.

Reporting Limits

Reporting limits were elevated when chromatograms indicated non-target background interference. The reporting limits for these analytes were flagged "Y" by the laboratory. These "Y" flagged results were qualified as not-detected (U-22). The following samples had elevated reporting limits for one or more compounds:

SDG NM40: Sample Q2-D-3.5: delta-BHC
Sample Q2-D-5.0: delta-BHC, aldrin, and gamma chlordane

Compound Identification and Reported Results

Samples Q2-D-3.5 and Q2-D-5.0 were re-analyzed at a 100x dilution because of internal standard outliers in the initial 10x dilutions. No positive results were reported for either analysis. The dilution analyses were labeled as do-not-report (DNR-11) in favor of the initial analyses.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, MS/MSD, and LCS/LCSD %R values. Precision was acceptable as demonstrated by the relative percent difference values for the LCS/LCSD and MS/MSD analyses.

Data were qualified as not detected at elevated reporting limits due to matrix interferences.

Data were labeled as do-not-report (DNR) to indicate which set of data from multiple analyses should be used. A usable result for remains for every analyte in each sample, therefore completeness is unaffected.

Data labeled DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
PCB Aroclors by SW846 Method 8082

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. All data received a full (Level IV) validation. Please see the Sample Index for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	2 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | |
|---|--|
| 1 Holding Times and Sample Preservation | 1 Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| Initial Calibration (ICAL) | Field Replicates |
| Continuing Calibration (CCAL) | Internal Standards |
| Laboratory Blanks | Compound Identification |
| Field Blanks | 2 Reporting Limits |
| Surrogate Compounds | 1 Calculation Verification |
| Laboratory Control Samples (LCS/LCSD) | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

The temperatures of several coolers were outside the recommended temperature range of $4^{\circ}\text{C} \pm 2^{\circ}$ when received at the laboratory, ranging from 6.8° to 11.6°C . The temperature outliers did not impact data quality and no data were qualified.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed. Accuracy and precision were assessed using the laboratory control sample and laboratory control sample duplicate (LCS/LCSD).

Reporting Limits

Reporting limits were elevated when chromatograms indicated non-target background interference. The reporting limits for these analytes were flagged "Y" by the laboratory. These "Y" flagged results were qualified as not-detected (U-22). The following samples had elevated reporting limits for one or more compounds:

SDG NM40: Sample Q2-D-5.0: Aroclor 1248

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, MS/MSD, and LCS/LCSD percent recovery values. Precision was also acceptable as demonstrated by the relative percent difference values for the LCS/LCSD and MS/MSD analyses.

Reporting limits were elevated based on matrix interference.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
Diesel and Residual Range Hydrocarbons by NWTPH-Dx

This report documents the review of analytical data from the analyses of soil samples and the associated field and laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	12 Soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

Water samples Q2-D-W and WD-1 appeared on the Chain of Custody (COC), but were not analyzed by the laboratory.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation	2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration (ICAL)		Field Replicates
	Continuing Calibration (CCAL)		Reporting Limits
	Blanks (Method and Field)		Compound Identification
1	Surrogate Compounds		Sample Results
	Laboratory Control Samples (LCS/LCSD)	1	Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures that were outside of the recommended range of 4°C ±2°, ranging from 1.6° to 11.6°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Surrogate Compounds

The surrogate recoveries for several samples could not be calculated due to necessary dilutions. No action was necessary.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate samples (MS/MSD) were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent recovery (%R) and relative percent difference (RPD) values were within the laboratory control limits, with the exception noted below.

QC Sample Q2-A-1.0: diesel (MSD 9.6 %; RPD 39.6%) – result for the parent sample was estimated (J-8,9).

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and MS/MSD %R values, except as noted above. Precision was also acceptable as demonstrated by the MS/MSD and LCS/LCSD RPD values, except as noted above.

Data were estimated because of MS/MSD %R and RPD outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
Gasoline Range Organics by NWTPH-Gx

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	2 Groundwater, 4 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found, with the following exception:

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Receipt	Laboratory Duplicates
	Instrument Performance Check	Laboratory Control Samples (LCS)
	Initial Calibration (ICAL)	1 Field Replicates
	Continuing Calibration (CCAL)	Reported Results
	Blanks (Method and Field)	Compound Identification
	Surrogate Compounds	1 Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Receipt

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

One set of field replicates, Samples Q2-D-W and WD-1 was submitted. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample percent recovery values. Precision was acceptable as demonstrated by the RPD values for the laboratory and field replicate analyses.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
BTEX Compounds by EPA Method 8021Mod

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	2 Groundwater, 4 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation	Laboratory Control Samples (LCS/LCSD)
	Instrument Performance Check	1 Field Replicates
	Initial Calibration (ICAL)	Reported Results
	Continuing Calibration (CCAL)	Compound Identification
	Blanks (Method and Field)	1 Calculation Verification
	Surrogate Compounds	

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Preservation

Several coolers were received at temperatures outside of the recommended range of 4°C ±2°, ranging from 1.6° to 11.6°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

One set of field replicates, Samples Q2-D-W and WD-1 was submitted. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recovery values. Precision was acceptable as demonstrated by the RPD values for the LCS/LCSD and field replicate analyses.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
Metals by Methods SW6010B, EPA 200.8, and SW7471A

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	2 Groundwater, 13 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the exception noted below. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

- | | |
|---|----------------------------|
| 1 Holding Times and Sample Preservation | 2 Laboratory Duplicates |
| Initial Calibration | 1 Field Replicates |
| Calibration Verification | Interference Check Samples |
| CRDL Standards | Serial Dilutions |
| 1 Laboratory Blanks | ICPMS Internal Standards |
| Laboratory Control Samples (LCS) | Reported Results |
| 2 Matrix Spikes (MS) | 1 Calculation Verification |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Laboratory Blanks

Zinc was detected in the method blank at levels greater than the method detection limit (MDL). To evaluate the effect on the sample data, an action level of five times the blank concentration was established. All associated sample results were greater than the action level, therefore no qualification of the data was necessary.

Matrix Spikes

A matrix spike sample (MS) was analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent recovery (%R) values were within the laboratory control limits, with the exceptions noted below. For %R values less than the lower control limit, the associated positive results and non-detects were estimated (J/UJ-8) to indicate a possible low bias. The following outliers were noted:

QC Sample Q2-D-3.5 (soil): copper (72.6%), zinc (-21.1%) – low bias. Although there was no recovery for zinc in the MS, the results were estimated rather than rejected due to the non-homogenous nature of the sample as indicated by the duplicate results.

Laboratory Duplicates

Laboratory duplicate relative percent difference (RPD) values were used to evaluate precision. The RPD values were within the control limit of 35% for soil sample results greater than five times the reporting limit (for results less than five times the reporting limit, the difference was less than twice the reporting limit) with the exceptions noted below. For RPD or difference values exceeding the control limits, associated positive results and non-detects were estimated (J/UJ-9). The following outliers were noted:

QC Sample Q2-D-3.5 - soil: zinc (37.3%)

Field Replicates

The following acceptance criteria were used to evaluate field precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

One set of field replicates, Samples Q2-D-W and WD-1 was submitted with this SDG. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory and field replicate RPD values indicated acceptable precision, except as noted above. Accuracy was also acceptable, as demonstrated by the MS and laboratory control sample recoveries, except as noted above.

Data were estimated based on MS %R and laboratory duplicate RPD outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal South Transect Q2
Turbidity by Method 180.1 and Total Solids by Method 160.3

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NM40	2 Groundwater, 13 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. Errors in the units for the turbidity duplicate analysis for samples Q2-D-W and Q4-W were found. The EDD was corrected and no further action was taken.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

1	Holding Times and Sample Preservation	Laboratory Control Samples
	Initial Calibration	Matrix Spikes (MS)
	Calibration Verification	Laboratory Replicates
1	Field Replicates	Reporting Limits
	Laboratory Blanks	1 Calculation Verification

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

One set of field replicates, Samples Q2-D-W and WD-1 was submitted with this SDG. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory replicate RPD values indicated acceptable precision. Accuracy was also acceptable, as demonstrated by the laboratory control sample recoveries.

No data were qualified for any reason. All data, as reported, are acceptable for use.

SAMPLE INDEX
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Matrix	PAH	TPH-Dx	TPH-G BTEX	Metals	Turbidity
Q4-2.5	08-29725-NX66A	SOIL	X	X		X	
Q4-15.0	08-29727-NX66C	SOIL	X	X	X	X	
Q4-27.0	08-29729-NX66E	SOIL	X	X		X	
Q4-31.0	08-29730-NX66F	SOIL	X	X	X	X	
Q5-14.0	08-29732-NX66H	SOIL	X	X	X	X	
Q5-18.0	08-29733-NX66I	SOIL	X	X	X	X	
Q5-25.5	08-29734-NX66J	SOIL	X	X		X	
Q6-4.0	08-29736-NX66K	SOIL	X	X		X	
Q6-18.0	08-29738-NX66M	SOIL	X	X	X	X	
Q6-22.5	08-29739-NX66N	SOIL	X	X		X	
Q7-4.0	08-29740-NX66O	SOIL	X	X		X	
Q7-5.5	08-29741-NX66P	SOIL	X	X		X	
Q7-9.0	08-29742-NX66Q	SOIL	X	X	X	X	
Q7-19.5	08-29743-NX66R	SOIL	X	X	X	X	
Q8-3.5	08-29744-NX66S	SOIL	X	X		X	
Q8-16.0	08-29758-NX66T	SOIL	X	X	X	X	
Q8-24.0	08-29767-NX71A	SOIL	X	X		X	
Q8-28.0	08-29768-NX71B	SOIL	X	X		X	
Q9-18.0	08-29770-NX71D	SOIL	X	X	X	X	
Q9-25.0	08-29771-NX71E	SOIL	X	X		X	
Q9-28.0	08-29772-NX71F	SOIL	X	X	X	X	
Q10-5.0	08-29773-NX71G	SOIL	X	X		X	
Q10-19.0	08-29775-NX71I	SOIL	X	X		X	
Q10-26.0	08-29776-NX71J	SOIL	X	X	X	X	
Q11-11.5	08-29778-NX71L	SOIL	X	X	X	X	
Q11-18.0	08-29779-NX71M	SOIL	X	X		X	
Q11-26.0	08-29780-NX71N	SOIL	X	X	X	X	
Q12-4.5	08-29781-NX71O	SOIL	X	X		X	
Q12-15.0	08-29782-NX71P	SOIL	X	X	X	X	
Q12-20.5	08-29783-NX71Q	SOIL	X	X		X	
Q13-10.0	08-29786-NX71T	SOIL	X	X	X	X	
Q13-15.0	08-29834-NX79A	SOIL	X	X		X	
Q13-22.0	08-29835-NX79B	SOIL	X	X	X	X	
Q14-2.5	08-29836-NX79C	SOIL	X	X		X	
Q14-6.5	08-29837-NX79D	SOIL	X	X		X	
Q14-15.5	08-29838-NX79E	SOIL	X	X	X	X	
Q14-22.0	08-29839-NX79F	SOIL	X	X	X	X	
Q15-4.0	08-29840-NX79G	SOIL	X	X		X	
Q15-16.0	08-29841-NX79H	SOIL	X	X	X	X	
Q15-20.0	08-29842-NX79I	SOIL	X	X		X	
Q16-3.5	08-29844-NX79K	SOIL	X	X		X	
Q16-20.0	08-29846-NX79M	SOIL	X	X	X	X	
Q16-28.0	08-29847-NX79N	SOIL	X	X		X	
Q17-11.0	08-29849-NX79P	SOIL	X	X	X	X	
Q17-18.0	08-29850-NX79Q	SOIL	X	X		X	
Q17-25.0	08-29851-NX79R	SOIL	X	X		X	
SD-3	08-29852-NX79S	SOIL	X	X	X	X	
SD-4	08-29853-NX79T	SOIL	X	X	X	X	
SD-5	08-29854-NX79U	SOIL	X	X	X	X	

SAMPLE INDEX
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Matrix	PAH	TPH-Dx	TPH-G BTEX	Metals	Turbidity
QRM-1-1.0	08-29948-NY02A	SOIL	X	X		X	
QRM-1-2.0	08-29949-NY02B	SOIL	X	X		X	
QRM-2-1.0	08-29950-NY02C	SOIL	X	X		X	
QRM-2-2.0	08-29951-NY02D	SOIL	X	X		X	
QRM-3-1.0	08-29952-NY02E	SOIL	X	X		X	
QRM-3-2.0	08-29953-NY02F	SOIL	X	X		X	
QRM-4-1.0	08-29954-NY02G	SOIL	X	X		X	
QRM-4-2.0	08-29955-NY02H	SOIL	X	X		X	
QRM-5-1.0	08-29956-NY02I	SOIL	X	X		X	
QRM-5-2.0	08-29957-NY02J	SOIL	X	X		X	
Q4-W	08-29958-NY02K	WATER	X	X	X		X
Q9-W	08-29959-NY02L	WATER	X	X	X		
Q12-W	08-29960-NY02M	WATER	X	X	X		X
Q14-W	08-29961-NY02N	WATER	X	X	X		X
Q17-W	08-29962-NY02O	WATER	X	X	X		X
WD-2	08-29963-NY02P	WATER	X	X	X		X
TB	08-29964-NY02Q	WATER			X		
TB	08-30036-NY15A	WATER			X		
Q4-W	08-34714-OF61A	WATER				X	
Q9-W	08-34715-OF61B	WATER				X	
Q12-W	08-34716-OF61C	WATER				X	
Q14-W	08-34717-OF61D	WATER				X	
Q17-W	08-34718-OF61E	WATER				X	
WD-2	08-34719-OF61F	WATER				X	

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal Borings
Polycyclic Aromatic Hydrocarbon Compounds
by Method SW8270D-GC/MS

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NX66	16 Soil
NX71	15 Soil
NX79	18 Soil
NY02	6 Groundwater, 10 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%).

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

- | | | | |
|---|---------------------------------------|---|--|
| 2 | Holding Times and Sample Preservation | 1 | Matrix Spikes/Matrix Spike Duplicates (MS/MSD) |
| | GC/MS Instrument Performance Check | 2 | Field Replicates |
| | Initial Calibration (ICAL) | | Internal Standards |
| | Continuing Calibration (CCAL) | | Target Analyte List |
| | Laboratory Blanks | | Reporting Limits |
| | Field Blanks | 2 | Compound Identification and Reported Results |
| 1 | Surrogate Compounds | 1 | Calculation Verification |
| 2 | Laboratory Control Samples (LCS/LCSD) | | |

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

The validation guidance documents state that the cooler temperatures should be within an advisory temperature range of 2° to 6°C. The laboratory received the majority of the sample coolers with temperatures outside the advisory control limits of 2° to 6°C, ranging from 1.6° to 3.6°C. These temperature outliers did not impact data quality and no action was taken.

SDG NY02: Samples Q4-W, Q12-W, Q14-W, Q17-W, and WD-2 were re-extracted after the holding time had expired. All results for these samples were estimated (J/UJ-1).

Surrogates

The percent recovery (%R) values for the surrogates were within the specified control limits for samples analyzed at dilutions of less than 10x. Several samples required dilutions greater than 10x. Surrogate recovery control limits do not apply in these cases.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed at the required frequency. The MS/MSD recovery values were within the laboratory control limits, with the exception noted below. All MS/MSD relative percent difference (RPD) values were within the specified control limits.

SDG NX71: For QC Sample Q11-18.0, the MS %R value for fluorene was greater than the upper control limit. No qualification was necessary as the MSD recovery was in control.

Laboratory Control Sample/Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) analyses were performed at the required frequency. The recovery values were within the specified control limits, with the exceptions noted below.

SDG NY02: There were no positive results for any compounds in the LCS/LCSD from the original extraction of the water samples. The water samples were re-extracted and re-analyzed, with the exception of Q9-W which had insufficient sample remaining to re-extract. The fact that no compounds were detected in the LCS/LCSD and the acceptable surrogate recoveries for the LCS/LCSD samples indicate that the spiking solution was not added. Therefore, all results for Sample Q9-W were estimated (J-10) instead of being rejected.

Field Replicates

The following acceptance criteria were used to evaluate field precision: the RPD control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

SDG NX66 and NX79: One set of field replicates was submitted: Sample Q4-15.0, submitted with SDG NX66, and the field duplicate Sample SD-3, submitted with SDG NX79. The RPD

for dibenzofuran (52.4%) exceeded the control limit. The sample and field duplicate were estimated (J-9).

SDG NX79: Two sets of field replicates, Samples Q13-22.0 and SD-4, and Samples Q15-16.0 and SD-5, were submitted. All field precision criteria were met.

SDG NY02: One set of field replicates, Samples Q12-W and WD-2, were submitted. The RPD value for naphthalene was greater than the control limit. For acenaphthene and pyrene, the difference between the sample and replicate was greater than the RL. The results for these analytes were estimated (J-9) in both samples.

Compound Identification and Reported Results

Samples were screened in order to determine necessary dilutions. In some cases, one or more analytes still exceeded the instrument linear range and required additional dilution. The results for the compounds in the original analyses that were greater than the calibration range were labeled do-not-report (DNR-20). Results for all other compounds in additional dilutions were labeled do not report (DNR-11). The samples requiring additional dilutions and the associated compounds are listed below:

SDG NX66: Q4-2.5 (20x), Q4-15.0 (300x), Q5-18.0 (3x), Q6-4.0 (50x), Q7-4.0 (20x), Q7-5.5 (20x)

SDG NX71: Q9-28.0 (3x), Q10-5.0 (10x)

SDG NX79: Q14-6.5 (20x), Q15-4.0 (20x), SD-3 (200x)

SDG NY02: Q4-W (200x), Q9-W (250x)

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the field replicate, MS/MSD, and LCS/LCSD RPD values, except as previously noted.

Data were estimated based on exceeded holding times, LCS/LCSD %R outliers, and field replicate RPD outliers.

Data were labeled do-not-report (DNR) to indicate which result, from multiple dilutions and analyses, should be used. A usable result remains for all analytes in all samples, therefore completeness is unaffected.

Data labeled DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal Borings
Diesel and Residual Range Hydrocarbons by NWTPH-Dx

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated field and laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NX66	16 Soil
NX71	15 Soil
NX79	18 Soil
NY02	6 Groundwater, 10 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration (ICAL)	1 Field Replicates
	Continuing Calibration (CCAL)	Reporting Limits
	Blanks (Method and Field)	Compound Identification
2	Surrogate Compounds	2 Sample Results
	Laboratory Control Samples (LCS/LCSD)	1 Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures that were outside of the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 11.6°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Surrogate Compounds

The surrogate recoveries for several samples could not be calculated due to necessary dilutions. No action was necessary.

SDG NY02: The percent recovery (%R) value for o-terphenyl was less than the lower control limit in sample Q17-W. The sample results were estimated (UJ-13) to indicate a potential low bias.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

SDG NX66 and NX79: One set of field replicates was submitted. The parent sample, Q4-15.0, was submitted with SDG NX66. The duplicate sample, SD-3, was submitted with SDG NX79. All field precision criteria were met.

SDG NX79: Two sets of field replicates, samples Q13-22.0 and SD-4, and samples Q15-16.0 and SD-5, were submitted with this SDG. Field precision was acceptable.

SDG NY02: One set of field replicates, samples Q12-W and WD-2, were submitted with this SDG. Field precision was acceptable.

Sample Results

SDG NY02: Sample Q4-W was re-extracted and re-analyzed at a 5x dilution due to a surrogate outlier in the original analysis. The re-extraction was done after the holding time had expired. The results from the original analysis should be used. The results from the re-extraction were labeled do-not-report (DNR-11).

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and matrix spike/matrix spike duplicate (MS/MSD) recoveries, except as previously noted. Precision was also acceptable as demonstrated by the LCS/LCSD, MS/MSD, and field replicate relative percent difference (RPD) values, except as noted above.

Data were estimated because of surrogate recovery and field replicate RPD outliers.

Data were labeled as do-not-report (DNR) to indicate which results from multiple analyses should be used. A usable result remains for all analytes and all samples, therefore completeness is unaffected.

Data labeled DNR should not be used for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal Borings
Gasoline Range Organics by NWTPH-Gx

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NX66	8 Soil
NX71	7 Soil
NX79	9 Soil
NY02	6 Groundwater, 1 Trip Blank
NY15	1 Trip Blank

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation	Laboratory Control Samples
	Instrument Performance Check	Laboratory Duplicates
	Initial Calibration (ICAL)	1 Field Replicates
	Continuing Calibration (CCAL)	1 Reported Results
1	Blanks (Method and Field)	Compound Identification
	Surrogate Compounds	1 Calculation Verification

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 6.8° to 11.6°C . Several coolers were received at temperatures less than the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 1.8°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Blanks (Method and Field)

SDG NY02: One trip blank was submitted with this SDG. There were no positive results for this blank.

SDG NY15: One trip blank was submitted with this SDG. There were no positive results for this blank.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

SDG NX66 and NX79: One set of field replicates was submitted: Sample Q4-15.0, submitted with SDG NX66 and the field duplicate Sample SD-3, submitted with SDG NX79. Both samples were analyzed on the same instrument on the same day. All field precision criteria were met.

SDG NX79: Two sets of field replicates, Samples Q13-22.0 and SD-4, and Samples Q15-16.0 and SD-5, were submitted with this SDG. Field precision was acceptable.

SDG NY02: One set of field replicates, Samples Q12-W and WD-2 was submitted with this SDG. Field precision was acceptable.

Reported Results

SDG NX71: The sample amount for each of the samples was reported incorrectly by the laboratory on the Form 1 as "mg-as-rec". The units were corrected by the validator to read "mg-dry-wt".

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample percent recovery values. Precision was acceptable as demonstrated by the RPD values for the laboratory and field replicate analyses.

No data were qualified for any reason.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal Borings
BTEX Compounds – by SW8021Mod

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NX66	8 Soil
NX71	7 Soil
NX79	9 Soil
NY02	6 Groundwater, 1 Trip Blank
NY15	1 Trip Blank

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A complete (100%) verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are summarized in the table below.

1	Holding Times and Sample Preservation	Laboratory Control Samples (LCS/LCSD)
	Instrument Performance Check	2 Field Replicates
	Initial Calibration (ICAL)	1 Reported Results
	Continuing Calibration (CCAL)	Compound Identification
1	Blanks (Method and Field)	1 Calculation Verification
	Surrogate Compounds	

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Preservation

Several coolers were received at temperatures outside of the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 11.6°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Blanks (Method and Field)

SDG NY02: One trip blank was submitted with this SDG. No target analytes were detected in this blank.

SDG NY15: One trip blank was submitted with this SDG. No target analytes were detected in this blank.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

SDG NM40: One set of field replicates, Samples Q2-D-W and WD-1 was submitted with this SDG. All field precision criteria were met.

SDG NM43: One set of field replicates, Samples Q1-D-23.0 and SD-2 was submitted with this SDG. All field precision criteria were met.

SDG NX66 and NX79: One set of field replicates was submitted: Sample Q4-15.0, submitted with SDG NX66 and the field duplicate Sample SD-3, submitted with SDG NX79. The RPD for benzene (75.2%) exceeded the control limit. The benzene results for these two samples were estimated (J-9).

SDG NX79: Two sets of field replicates, Samples Q13-22.0 and SD-4, and Samples Q15-16.0 and SD-5, were submitted with this SDG. Field precision was acceptable.

SDG NY02: One set of field replicates, Samples Q12-W and WD-2 was submitted with this SDG. Field precision was acceptable.

Reported Results

SDG NX71: The sample amount for each of the samples was reported incorrectly by the laboratory on the Form 1 as "mg-as-rec". The units were corrected by the validator to read "mg-dry-wt".

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recovery values. Precision was acceptable as demonstrated by the RPD values for the LCS/LCSD and field replicate analyses, with the exception noted above.

Data were estimated based on a field precision outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal Borings
Metals by Methods SW6010B, EPA 200.8, and SW7471A

This report documents the review of analytical data from the analyses of groundwater, soil, and sediment samples and the associated laboratory and field quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All Data received a full (Level IV) validation. See the Sample Index for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NX66	16 Soil
NX71	15 Soil
NX79	18 Soil
NY02	10 Soil
OF61	5 Groundwater

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the exception noted below. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG NY02: The water samples in this SDG were re-analyzed and reported in SDG OF61.

SDG OF61: This SDG consists of water samples originally submitted in SDG NY02. The samples were re-analyzed by ICP-MS in order to achieve the project required detection limits. The laboratory analyzed sample Q9-W for arsenic and lead, even though these analyses were not requested on the Chain of Custody form.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. No errors were found.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

1	Holding Times and Sample Preservation		Field Blanks
	Initial Calibration	1	Field Replicates
	Calibration Verification		Interference Check Samples
	CRDL Standards		Serial Dilutions
	Laboratory Blanks		ICPMS Internal Standards
	Laboratory Control Samples (LCS)	1	Reported Results
	Matrix Spikes (MS)	1	Calculation Verification
	Laboratory Duplicates		

¹ Quality control results are discussed below, but no data were qualified.

² Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 6.8° to 11.6°C . Several coolers were received at temperatures less than the recommended range of $4^{\circ}\text{C} \pm 2^{\circ}$, ranging from 1.6° to 1.8°C . It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate field precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL (soils) or the RL (waters).

SDG NX66 and NX79: One set of field replicates was submitted: Sample Q4-15.0, submitted with SDG NX66 and the field duplicate Sample SD-3, submitted with SDG NX79. There were no positive results in either sample. Field precision was acceptable.

SDG NX79: Two sets of field replicates, Samples Q13-22.0 and SD-4, and Samples Q15-16.0 and SD-5, were submitted with this SDG. Field precision was acceptable.

SDG OF61: One set of field replicates, Samples Q12-W and WD-2, was submitted with this SDG. All field precision criteria were met.

Reported Results

Several reporting limits slightly exceeded the QAPP specified levels due to the sample size prepared, the percent total solids of the sample, and the dilution required for analysis.

SDG NY02: The water samples in this SDG were analyzed for arsenic and lead by Method SW6010B (ICP). The detection limits by this method do not meet the project requirements. All

water samples were re-analyzed by Method 200.8 (ICP-MS) and reported in SDG OF61. The required detection limits were attained and no further action was necessary.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory and field duplicate RPD values indicated acceptable precision, except as noted above. Accuracy was also acceptable, as demonstrated by the matrix spike and laboratory control sample recoveries.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
Pinnacle GeoSciences
POS BNSF ROW - Quendall Terminal Borings
Total Solids by 160.3 and Turbidity by 180.1

This report documents the review of analytical data from the analyses of groundwater and soil samples and the associated laboratory quality control (QC) samples. Analytical Resources, Inc., Tukwila, Washington, analyzed the samples. All data received a full (Level IV) validation. See the **Sample Index** for a complete list of samples for which data were reviewed.

SDG	Number of Samples
NX66	16 Soil
NX71	15 Soil
NX79	18 Soil
NY02	5 Groundwater, 10 soil

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverables (EDD) results was performed by comparison to the hardcopy laboratory data package. Errors in the units for the turbidity duplicate analysis for samples Q2-D-W and Q4-W were found. These were corrected in the EDD and no further action was taken.

III. TECHNICAL DATA VALIDATION

The QC requirements for review are listed below.

1	Holding Times and Sample Preservation	Laboratory Replicates
	Laboratory Blanks	1
	Laboratory Control Samples	Field Replicates
	Matrix Spike (MS)	Reporting Limits
		1
		Calculation Verification

¹ *Quality control results are discussed below, but no data were qualified.*

² *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Holding Times and Sample Preservation

Several coolers were received at temperatures greater than the recommended range of 4°C ±2°, ranging from 6.8° to 11.6°C. Several coolers were received at temperatures less than the recommended range of 4°C ±2°, ranging from 1.6° to 1.8°C. It was determined that these temperature outliers did not impact data quality and no qualifiers were assigned.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 35% for water samples and 50% for soil sample results greater than five times the reporting limit (RL). For results less than five times the RL, the difference between the sample and replicate must be less than two times the RL.

No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG NX66 and NX79: One set of field replicates was submitted: Sample Q4-15.0, submitted with SDG NX66 and the field duplicate Sample SD-3, submitted with SDG NX79. Field precision was acceptable.

SDG NX79: Two sets of field replicates, Samples Q13-22.0 and SD-4, and Samples Q15-16.0 and SD-5, were submitted with this SDG. Field precision was acceptable.

SDG NY02: One set of field replicates, Samples Q12-W and WD-2, was submitted with this SDG. All field precision criteria were met.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. The laboratory and field replicate RPD values indicated acceptable precision. Accuracy was also acceptable, as demonstrated by the laboratory control sample recoveries.

No data were qualified for any reason. All data, as reported, are acceptable for use.



EcoChem, INC.
Environmental Data Quality

APPENDIX A
DATA QUALIFIER DEFINITIONS
REASON CODES
AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES

National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
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DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with "R" and "DNR" only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

DATA VALIDATION CRITERIA

Table No.: NFG-SVOC
Revision No.: 7
Last Rev. Date: 8/23/07
Page: 1 of 2

EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

DATA VALIDATION CRITERIA

Table No.: NFG-SVOC
Revision No.: 7
Last Rev. Date: 8/23/07
Page: 2 of 2

EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD (if required)	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; Intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

DATA VALIDATION CRITERIA

Table No.: NWTPH-Dx

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Diesel & Residual Range (Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Dx, June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature & Preservation	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C	1
Holding Time	Ext. Waters: 14 days preserved 7 days unpreserved Ext. Solids: 14 Days Analysis: 40 days from extraction	J(+)/UJ(-) if hold times exceeded J(+)/R(-) if exceeded > 3X (EcoChem PJ)	1
Initial Calibration	5 calibration points (All within 15% of true value) Linear Regression: $R^2 \geq 0.990$ If used, RSD of response factors $\leq 20\%$	Narrate if fewer than 5 calibration levels or if %R > 15% J(+)/UJ(-) if $R^2 < 0.990$ J(+)/UJ(-) if %RSD > 20%	5A
Mid-range Calibration Check Std.	Analyzed before and after each analysis shift & every 20 samples. Recovery range 85% to 115%	Narrate if frequency not met. J(+)/UJ(-) if %R < 85% J(+) if %R > 115%	5B
Method Blank	At least one per batch (≤ 10 samples) No results > RL	U (at the RL) if sample result is < RL & < 5X blank result.	7
		U (at reported sample value) if sample result is \geq RL and < 5X blank result	7
Field Blanks (if required by project)	No results > RL	Action is same as method blank for positive results remaining in the field blank after method blank qualifiers are assigned.	6
MS samples (accuracy) (if required by project)	%R within lab control limits	Qualify parent only, unless other QC indicates systematic problems. J(+) if both %R > upper control limit (UCL) J(+)/UJ(-) if both %R < lower control limit (LCL) No action if parent conc. > 5X the amount spiked. Use PJ if only one %R outlier	8
Precision: MS/MSD or LCS/LCSD or sample/dup	At least one set per batch (≤ 10 samples) RPD \leq lab control limit	J(+) if RPD > lab control limits	9
LCS (not required by method)	%R within lab control limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R < 10% (EcoChem PJ)	10

DATA VALIDATION CRITERIA

Table No.: NWTPH-Dx

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Diesel & Residual Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Dx,
June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Surrogates	2-fluorobiphenyl, p-terphenyl, o-terphenyl, and/or pentacosane added to all samples (inc. QC samples). %R = 50-150%	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R <10% No action if 2 or more surrogates are used, and only one is outside control limits. (EcoChem PJ)	13
Pattern Identification	Compare sample chromatogram to standard chromatogram to ensure range and pattern are reasonable match. Laboratory may flag results which have poor match.	J(+)	2
Field Duplicates	Use project control limits, if stated in QAPP EcoChem default: water: RPD < 35% solids: RPD < 50%	Narrate (Use Professional Judgement to qualify)	9
Two analyses for one sample (dilution)	Report only one result per analyte	"DNR" (or client requested qualifier) all results that should not be reported. (See TM-04)	11

DATA VALIDATION CRITERIA

Table No.: NWTPH-Gx

Revision No.: 2

Last Rev. Date: 8/13/07

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Gasoline Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Gx,
June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature & Preservation	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C	1
Holding Time	Waters: 14 days preserved 7 days unpreserved Solids: 14 Days	J(+)/UJ(-) if hold times exceeded J(+)/R(-) if exceeded > 3X (EcoChem PJ)	1
Initial Calibration	5 calibration points (All within 15% of true value) Linear Regression: $R^2 \geq 0.990$ If used, RSD of response factors $\leq 20\%$	Narrate if fewer than 5 calibration levels or if %R > 15% J(+)/UJ(-) if $R^2 < 0.990$ J(+)/UJ(-) if %RSD > 20%	5A
Mid-range Calibration Check Std.	Analyzed before and after each analysis shift & every 20 samples. Recovery range 80% to 120%	Narrate if frequency not met. J(+)/UJ(-) if %R < 80% J(+) if %R > 120%	5B
Method Blank	At least one per batch (≤ 10 samples) No results > RL	U (at the RL) if sample result is < RL & < 5X blank result.	7
		U (at reported sample value) if sample result is \geq RL and < 5X blank result	7
Trip Blank (if required by project)	No results > RL	Action is same as method blank for positive results remaining in trip blank after method blank qualifiers are assigned.	18
Field Blanks (if required by project)	No results > RL	Action is same as method blank for positive results remaining in field blank after method and trip blank qualifiers are assigned.	6
MS samples (accuracy) (if required by project)	%R within lab control limits	Qualify parent only, unless other QC indicates systematic problems. J(+) if both %R > upper control limit (UCL) J(+)/UJ(-) if both %R < lower control limit (LCL) No action if parent conc. > 5X the amount spiked. Use PJ if only one %R outlier	8
Precision: MS/MSD or LCS/LCSD or sample/dup	At least one set per batch (≤ 10 samples) RPD \leq lab control limit	J(+) if RPD > lab control limits	9

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Table No.: NWTPH-Gx

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Gasoline Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Gx,
June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
LCS (not required by method)	%R within lab control limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R <10% (EcoChem PJ)	10
Surrogates	Bromofluorobenzene and/or 1,4-difluorobenzene added to all samples (inc. QC samples). %R = 50-150%	J(+)/UJ(-) if %R < LCL J(+) if %R >UCL J(+)/R(-) if any %R <10% No action if 2 or more surrogates are used, and only one is outside control limits. (EcoChem PJ)	13
Pattern Identification	Compare sample chromatogram to standard chromatogram to ensure range and pattern are reasonable match. Laboratory may flag results which have poor match.	J(+)	2
Field Duplicates	Use project control limits, if stated in QAPP EcoChem default: water: RPD < 35% solids: RPD < 50%	Narrate outliers If required by project, qualify with J(+)/UJ(-)	9
Two analyses for one sample (e.g., dilution)	Report only one result per analyte	"DNR" (or client requested qualifier) all results that should not be reported. (See TM-04)	11

DATA VALIDATION CRITERIA

Table No.: NFG-Pest PCB

Revision No.: 4

Last Rev. Date: 8/23/07

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EcoChem Validation Guidelines for Pesticides/PCBs by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Method 8081/8082)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext/analyzed > HT J(+)/R(-) if ext/analyzed > 3X HT (EcoChem PJ)	1
Resolution Check	Beginning of ICAL Sequence Within RTW Resolution >90%	Narrate (Use Professional Judgement to qualify)	14
Instrument Performance (Breakdown)	DDT Breakdown: < 20% Endrin Breakdown: <20% Combined Breakdown: <30% Compounds within RTW	J(+) DDT NJ(+) DDD and/or DDE R(-) DDT - If (+) for either DDE or DDD J(+) Endrin NJ(+) EK and/or EA R(-) Endrin - If (+) for either EK or EA	5A
Retention Times	Surrogates: TCX (+/- 0.05); DCB (+/- 0.10) Target compounds: elute before heptachlor epoxide (+/- 0.05) elute after heptachlor epoxide (+/- 0.07)	NJ(+)/R(-) results for analytes with RT shifts For full DV, use PJ based on examination of raw data	5B
Initial Calibration	Pesticides: Low=CRQL, Mid=4X, High=16X Multiresponse - one point Calibration %RSD<20% %RSD<30% for surr; two comp. may exceed if <30% Resolution in Mix A and Mix B >90%	J(+)/UJ(-)	5A
Continuing Calibration	Alternating PEM standard and INDA/INDB standards every 12 hours (each preceded by an inst. Blank) %D < 25% Resolution >90% in IND mixes; 100% for PEM	J(+)/UJ(-) J(+)/R(-) if %D > 90% PJ for resolution	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample result is < CRQL and < 5X rule (raise sample value to CRQL) U(+) if sample result is > or equal to CRQL and < 5X rule (at reported sample value)	7
Instrument Blanks	Analyzed at the beginning of every 12 hour sequence No analyte > 1/2 CRQL	Same as Method Blank	7
Field Blanks	Not addressed by NFG No results > CRQL	Apply 5X rule; U(+) < action level	6

DATA VALIDATION CRITERIA

Table No.: NFG-Pest PCB

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EcoChem Validation Guidelines for Pesticides/PCBs by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Method 8081/8082)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One set per matrix per batch Method Acceptance Criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One set per matrix per batch Method Acceptance Criteria	J(+) in parent sample if RPD > CL	9
LCS	One per SDG Method Acceptance Criteria	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
LCS/LCSD (if required)	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. compd. in all samples	9
Surrogates	TCX and DCB added to every sample %R = 30-150%	J(+)/UJ(-) if both %R = 10 - 60% J(+) if both >150% J(+)/R(-) if any %R <10%	13
Quantitation/ Identification	Quantitated using ICAL calibration factor (CF) RPD between columns <40%	J(+) if RPD = 40 - 60% NJ(+) if RPD >60% EcoChem PJ - See TM-08	3
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11
Sample Clean-up	GPC required for soil samples Florisil required for all samples Sulfur is optional Clean-up standard check %R within CLP limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate (Qualify if required by project QAPP)	9

DATA VALIDATION CRITERIA

Table No.: NFG-ICP
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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: $4^{\circ}\text{C} \pm 2^{\circ}$ Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, $r > 0.995$	J(+)/UJ(-) if $r < 0.995$ (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within $\pm 10\%$ of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within $\pm 10\%$ of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B
Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV every ten samples and end of run blank < IDL (MDL)	Action level is 5x absolute value of blank conc. For (+) blanks, U(+) results < action level For (-) blanks, J(+)/UJ(-) results < action level (Refer to TM-02 for additional information)	7
Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, TI)	R(-)/J(+) < 2x RL if %R < 50% (< 30% Sb, Pb, TI) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb, TI) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, TI) R(+) < 2x RL if %R > 180% (200% Sb, Pb, TI)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements ICSA < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R > 120% J(+)/UJ(-) if %R = 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

DATA VALIDATION CRITERIA

Table No.: NFG-ICP
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Last Rev. Date: draft
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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R > 120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D > 10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

DATA VALIDATION CRITERIA

Table No.: NFG-ICPMS
Revision No.: Draft
Last Rev. Date: Draft
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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times with Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B
Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV every ten samples and end of run blank < IDL (MDL)	Action level is 5x absolute value of blank conc. For (+) blanks, U(+) results < action level For (-) blanks, J(+)/UJ(-) results < action level refer to TM-02 for additional details	7
Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements ICSA < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

**EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)**

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

DATA VALIDATION CRITERIA

Table No.: NFG-HG
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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B
Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV every ten samples and end of run blank < IDL (MDL)	Action level is 5x absolute value of blank conc. For (+) blanks, U(+) results < action level For (-) blanks, J(+)/UJ(-) results < action level refer to TM-02 for additional details	7
Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+) < 2xRL if %R < 50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) < 2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R > 120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

DATA VALIDATION CRITERIA

Table No.: NFG-HG
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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9

DATA VALIDATION CRITERIA

Table No.: Eco-Conv
Revision No.: 0
Last Rev. Date: FINAL DRAFT
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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler Temperature 4°C ±2°C Preservation: Method Specific	Use Professional Judgment to qualify based to qualify for coole temp outliers J(+)/UJ(-) if preservation requirements not met	1
Holding Time	Method Specific	Professional Judgment J(+)/UJ(-) if holding time exceeded J(+)/R(-) if HT exceeded by > 3X	1
Initial Calibration	Method specific r>0.995	Use professional judgment J(+)/UJ(-) for r < 0.995	5A
Initial Calibration Verification (ICV)	Where applicable to method Independent source analyzed immediately after calibration %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5A
Continuing Cal Verification (CCV)	Where applicable to method Every ten samples, immed. following ICV/ICB and end of run %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5B
Initial and Continuing Cal Blanks (ICB/CCB)	Where applicable to method After each ICV and CCV every ten samples and end of run blank < MDL	Action level is 5x absolute value of blank conc. For (+) blanks, U(+) results < action level For (-) blanks, J(+)/UJ(-) results < action level refer to TM-02 for additional details	7
Method Blank	One per matrix per batch (not to exceed 20 samples) blank < MDL	Action level is 5x absolute value of blank conc. For (+) blk value, U(+) results < action level For (-) blk value, J(+)/UJ(-) results < action level	7
Laboratory Control Sample	Waters: One per matrix per batch %R (80-120%)	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R > 120%	10
	Soils: One per matrix per batch Result within manufacturer's certified acceptance range	J(+)/UJ(-) if < LCL, J(+) if > UCL	10
Matrix Spike	One per matrix per batch; 5% frequency 75-125% for samples less than 4 x spike level	J(+) if %R > 125% or < 75% UJ(-) if %R = 30-74% R(+/-) results < IDL if %R < 30%	8
Laboratory Duplicate	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (may use RPD < 35%, Diff < 2X RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

DATA VALIDATION CRITERIA

Table No.: Eco-Conv
Revision No.: 0
Last Rev. Date: FINAL DRAFT
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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5X RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff<RL Solid: Diff < 2X RL	J(+)/UJ(-) in parent samples only	9



EcoChem, INC.
Environmental Data Quality

APPENDIX B

QUALIFIED DATA SUMMARY TABLE

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-A-1.0	08-21754-NM43A	SW8270D	Phenanthrene	1100000	ug/kg	E	DNR	20
Q1-A-1.0	08-21754-NM43A	SW8270D	Pyrene	1300000	ug/kg	E	DNR	20
Q1-A-1.0	08-21754-NM43ADL	SW8270D	1,2,4-Trichlorobenzene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	1,2-Dichlorobenzene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	1,3-Dichlorobenzene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	1,4-Dichlorobenzene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	1-Methylnaphthalene	130000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,2'-Oxybis(1-Chloropropane)	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,4,5-Trichlorophenol	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,4,6-Trichlorophenol	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,4-Dichlorophenol	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,4-Dimethylphenol	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,4-Dinitrophenol	220000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,4-Dinitrotoluene	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2,6-Dinitrotoluene	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2-Chloronaphthalene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2-Chlorophenol	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2-Methylnaphthalene	170000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2-Methylphenol	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2-Nitroaniline	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	2-Nitrophenol	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	3,3'-Dichlorobenzidine	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	3-Nitroaniline	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4,6-Dinitro-2-Methylphenol	220000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Bromophenyl-phenylether	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Chloro-3-methylphenol	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Chloroaniline	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Chlorophenyl-phenylether	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Methylphenol	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Nitroaniline	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	4-Nitrophenol	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Acenaphthene	150000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Acenaphthylene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Anthracene	220000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzo(a)anthracene	520000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzo(a)pyrene	640000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzo(b)fluoranthene	340000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzo(g,h,i)perylene	230000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzo(k)fluoranthene	400000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzoic Acid	220000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Benzyl Alcohol	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	bis(2-Chloroethoxy) Methane	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Bis-(2-Chloroethyl) Ether	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	bis(2-Ethylhexyl)phthalate	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Butylbenzylphthalate	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Carbazole	42000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Chrysene	670000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Dibenz(a,h)anthracene	95000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Dibenzofuran	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Diethylphthalate	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Dimethylphthalate	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Di-n-Butylphthalate	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Di-n-Octyl phthalate	22000	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Fluoranthene	630000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Fluorene	110000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Hexachlorobenzene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Hexachlorobutadiene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Hexachlorocyclopentadiene	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Hexachloroethane	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Indeno(1,2,3-cd)pyrene	180000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Isophorone	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Naphthalene	250000	ug/kg		DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Nitrobenzene	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	N-Nitroso-Di-N-Propylamine	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	N-Nitrosodiphenylamine	22000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Pentachlorophenol	110000	ug/kg	U	DNR	11
Q1-A-1.0	08-21754-NM43ADL	SW8270D	Phenol	22000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43C	SW8270D	Benzo(a)anthracene	690000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Benzo(a)pyrene	680000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Benzo(b)fluoranthene	440000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Benzo(k)fluoranthene	390000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Chrysene	680000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Fluoranthene	640000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Phenanthrene	1000000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43C	SW8270D	Pyrene	1400000	ug/kg	E	DNR	20
Q1-B-1.0	08-21756-NM43CDL	SW8270D	1,2,4-Trichlorobenzene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	1,2-Dichlorobenzene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	1,3-Dichlorobenzene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	1,4-Dichlorobenzene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	1-Methylnaphthalene	150000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,4,5-Trichlorophenol	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,4,6-Trichlorophenol	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,4-Dichlorophenol	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,4-Dimethylphenol	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,4-Dinitrophenol	190000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,4-Dinitrotoluene	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2,6-Dinitrotoluene	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2-Chloronaphthalene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2-Chlorophenol	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2-Methylnaphthalene	200000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2-Methylphenol	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2-Nitroaniline	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	2-Nitrophenol	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	3,3'-Dichlorobenzidine	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	3-Nitroaniline	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4,6-Dinitro-2-Methylphenol	190000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Bromophenyl-phenylether	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Chloro-3-methylphenol	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Chloroaniline	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Chlorophenyl-phenylether	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Methylphenol	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Nitroaniline	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	4-Nitrophenol	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Acenaphthene	190000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Acenaphthylene	19000	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Anthracene	280000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Benzo(g,h,i)perylene	260000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Benzoic Acid	190000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Benzyl Alcohol	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	bis(2-Chloroethoxy) Methane	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Bis-(2-Chloroethyl) Ether	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	bis(2-Ethylhexyl)phthalate	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Butylbenzylphthalate	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Carbazole	47000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Dibenz(a,h)anthracene	110000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Dibenzofuran	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Diethylphthalate	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Dimethylphthalate	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Di-n-Butylphthalate	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Di-n-Octyl phthalate	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Fluorene	150000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Hexachlorobenzene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Hexachlorobutadiene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Hexachlorocyclopentadiene	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Hexachloroethane	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Indeno(1,2,3-cd)pyrene	190000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Isophorone	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Naphthalene	280000	ug/kg		DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Nitrobenzene	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	N-Nitroso-Di-N-Propylamine	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	N-Nitrosodiphenylamine	19000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Pentachlorophenol	96000	ug/kg	U	DNR	11
Q1-B-1.0	08-21756-NM43CDL	SW8270D	Phenol	19000	ug/kg	U	DNR	11
Q1-D-3.5	08-21761-NM43H	SW8270D	Benzoic Acid	610	ug/kg	U	UJ	8
Q1-D-9.0	08-21763-NM43J	SW8270D	Acenaphthene	51000	ug/kg	E	DNR	20
Q1-D-9.0	08-21763-NM43J	SW8270D	Fluoranthene	140000	ug/kg	E	DNR	20
Q1-D-9.0	08-21763-NM43J	SW8270D	Phenanthrene	160000	ug/kg	E	DNR	20
Q1-D-9.0	08-21763-NM43J	SW8270D	Pyrene	110000	ug/kg	E	DNR	20
Q1-D-9.0	08-21763-NM43JDL	SW8270D	1,2,4-Trichlorobenzene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	1,2-Dichlorobenzene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	1,3-Dichlorobenzene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	1,4-Dichlorobenzene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	1-Methylnaphthalene	13000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,4,5-Trichlorophenol	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,4,6-Trichlorophenol	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,4-Dichlorophenol	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,4-Dimethylphenol	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,4-Dinitrophenol	37000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,4-Dinitrotoluene	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2,6-Dinitrotoluene	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2-Chloronaphthalene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2-Chlorophenol	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2-Methylnaphthalene	10000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2-Methylphenol	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2-Nitroaniline	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	2-Nitrophenol	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	3,3'-Dichlorobenzidine	19000	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-D-9.0	08-21763-NM43JDL	SW8270D	3-Nitroaniline	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4,6-Dinitro-2-Methylphenol	37000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Bromophenyl-phenylether	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Chloro-3-methylphenol	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Chloroaniline	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Chlorophenyl-phenylether	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Methylphenol	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Nitroaniline	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	4-Nitrophenol	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Acenaphthylene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Anthracene	26000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzo(a)anthracene	35000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzo(a)pyrene	27000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzo(b)fluoranthene	16000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzo(g,h,i)perylene	16000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzo(k)fluoranthene	23000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzoic Acid	37000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Benzyl Alcohol	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	bis(2-Chloroethoxy) Methane	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Bis-(2-Chloroethyl) Ether	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	bis(2-Ethylhexyl)phthalate	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Butylbenzylphthalate	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Carbazole	7100	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Chrysene	45000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Dibenz(a,h)anthracene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Dibenzofuran	22000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Diethylphthalate	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Dimethylphthalate	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Di-n-Butylphthalate	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Di-n-Octyl phthalate	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Fluorene	42000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Hexachlorobenzene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Hexachlorobutadiene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Hexachlorocyclopentadiene	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Hexachloroethane	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Indeno(1,2,3-cd)pyrene	13000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Isophorone	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Naphthalene	18000	ug/kg		DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Nitrobenzene	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	N-Nitroso-Di-N-Propylamine	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	N-Nitrosodiphenylamine	3700	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Pentachlorophenol	19000	ug/kg	U	DNR	11
Q1-D-9.0	08-21763-NM43JDL	SW8270D	Phenol	3700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43K	SW8270D	1-Methylnaphthalene	43000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	2-Methylnaphthalene	62000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Acenaphthene	62000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Anthracene	21000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Dibenzofuran	19000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Fluoranthene	78000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Fluorene	41000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Naphthalene	15000	ug/kg	E	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Phenanthrene	170000	ug/kg	ES	DNR	20
Q1-D-15.0	08-21764-NM43K	SW8270D	Pyrene	56000	ug/kg	E	DNR	20

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-D-15.0	08-21764-NM43KDL	SW8270D	1,2,4-Trichlorobenzene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	1,2-Dichlorobenzene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	1,3-Dichlorobenzene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	1,4-Dichlorobenzene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,4,5-Trichlorophenol	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,4,6-Trichlorophenol	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,4-Dichlorophenol	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,4-Dimethylphenol	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,4-Dinitrophenol	47000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,4-Dinitrotoluene	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2,6-Dinitrotoluene	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2-Chloronaphthalene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2-Chlorophenol	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2-Methylphenol	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2-Nitroaniline	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	2-Nitrophenol	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	3,3'-Dichlorobenzidine	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	3-Nitroaniline	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4,6-Dinitro-2-Methylphenol	47000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Bromophenyl-phenylether	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Chloro-3-methylphenol	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Chloroaniline	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Chlorophenyl-phenylether	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Methylphenol	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Nitroaniline	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	4-Nitrophenol	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Acenaphthylene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzo(a)anthracene	11000	ug/kg		DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzo(a)pyrene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzo(b)fluoranthene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzo(g,h,i)perylene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzo(k)fluoranthene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzoic Acid	47000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Benzyl Alcohol	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	bis(2-Chloroethoxy) Methane	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Bis-(2-Chloroethyl) Ether	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	bis(2-Ethylhexyl)phthalate	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Butylbenzylphthalate	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Carbazole	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Chrysene	12000	ug/kg		DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Dibenz(a,h)anthracene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Diethylphthalate	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Dimethylphthalate	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Di-n-Butylphthalate	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Di-n-Octyl phthalate	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Hexachlorobenzene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Hexachlorobutadiene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Hexachlorocyclopentadiene	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Hexachloroethane	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Indeno(1,2,3-cd)pyrene	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Isophorone	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Nitrobenzene	4700	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-D-15.0	08-21764-NM43KDL	SW8270D	N-Nitroso-Di-N-Propylamine	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	N-Nitrosodiphenylamine	4700	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Pentachlorophenol	24000	ug/kg	U	DNR	11
Q1-D-15.0	08-21764-NM43KDL	SW8270D	Phenol	4700	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43L	NWTPH-Dx	Diesel Range Hydrocarbons	1700	mg/kg		J	9
Q1-D-23.0	08-21765-NM43L	NWTPH-Dx	Motor Oil	150	mg/kg		J	9
Q1-D-23.0	08-21765-NM43L	SW8270D	1-Methylnaphthalene	12000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	2-Methylnaphthalene	17000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Acenaphthene	22000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Anthracene	11000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Benzo(a)anthracene	6500	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Benzo(a)pyrene	1900	ug/kg		J	9
Q1-D-23.0	08-21765-NM43L	SW8270D	Benzo(b)fluoranthene	1600	ug/kg		J	9
Q1-D-23.0	08-21765-NM43L	SW8270D	Benzo(g,h,i)perylene	370	ug/kg		J	9
Q1-D-23.0	08-21765-NM43L	SW8270D	Chrysene	5900	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Fluoranthene	48000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Fluorene	18000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Indeno(1,2,3-cd)pyrene	400	ug/kg		J	9
Q1-D-23.0	08-21765-NM43L	SW8270D	Phenanthrene	120000	ug/kg	ES	DNR	20
Q1-D-23.0	08-21765-NM43L	SW8270D	Pyrene	33000	ug/kg	E	DNR	20
Q1-D-23.0	08-21765-NM43LDL	SW8270D	1,2,4-Trichlorobenzene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	1,2-Dichlorobenzene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	1,3-Dichlorobenzene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	1,4-Dichlorobenzene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,4,5-Trichlorophenol	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,4,6-Trichlorophenol	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,4-Dichlorophenol	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,4-Dimethylphenol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,4-Dinitrophenol	20000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,4-Dinitrotoluene	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2,6-Dinitrotoluene	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2-Chloronaphthalene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2-Chlorophenol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2-Methylphenol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2-Nitroaniline	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	2-Nitrophenol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	3,3'-Dichlorobenzidine	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	3-Nitroaniline	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4,6-Dinitro-2-Methylphenol	20000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Bromophenyl-phenylether	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Chloro-3-methylphenol	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Chloroaniline	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Chlorophenyl-phenylether	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Methylphenol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Nitroaniline	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	4-Nitrophenol	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Acenaphthylene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzo(a)anthracene	6500	ug/kg		J	9
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzo(a)pyrene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzo(b)fluoranthene	2100	ug/kg		DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzo(g,h,i)perylene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzo(k)fluoranthene	2000	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzoic Acid	20000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Benzyl Alcohol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	bis(2-Chloroethoxy) Methane	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Bis-(2-Chloroethyl) Ether	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	bis(2-Ethylhexyl)phthalate	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Butylbenzylphthalate	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Carbazole	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Chrysene	6600	ug/kg		J	9
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Dibenz(a,h)anthracene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Dibenzofuran	6100	ug/kg		DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Diethylphthalate	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Dimethylphthalate	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Di-n-Butylphthalate	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Di-n-Octyl phthalate	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Fluoranthene	51000	ug/kg		J	9
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Hexachlorobenzene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Hexachlorobutadiene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Hexachlorocyclopentadiene	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Hexachloroethane	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Indeno(1,2,3-cd)pyrene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Isophorone	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Naphthalene	3300	ug/kg		DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Nitrobenzene	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	N-Nitroso-Di-N-Propylamine	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	N-Nitrosodiphenylamine	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Pentachlorophenol	9900	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Phenol	2000	ug/kg	U	DNR	11
Q1-D-23.0	08-21765-NM43LDL	SW8270D	Pyrene	52000	ug/kg		J	9
SD-2	08-21767-NM43N	NWTPH-Dx	Diesel Range Hydrocarbons	980	mg/kg		J	9
SD-2	08-21767-NM43N	NWTPH-Dx	Motor Oil	89	mg/kg		J	9
SD-2	08-21767-NM43N	SW8270D	1-Methylnaphthalene	11000	ug/kg	E	DNR	20
SD-2	08-21767-NM43N	SW8270D	2-Methylnaphthalene	15000	ug/kg	E	DNR	20
SD-2	08-21767-NM43N	SW8270D	Acenaphthene	17000	ug/kg	E	DNR	20
SD-2	08-21767-NM43N	SW8270D	Anthracene	8800	ug/kg	E	DNR	20
SD-2	08-21767-NM43N	SW8270D	Benzo(a)anthracene	3600	ug/kg		J	9
SD-2	08-21767-NM43N	SW8270D	Benzo(a)pyrene	1100	ug/kg		J	9
SD-2	08-21767-NM43N	SW8270D	Benzo(b)fluoranthene	880	ug/kg		J	9
SD-2	08-21767-NM43N	SW8270D	Benzo(g,h,i)perylene	210	ug/kg		J	9
SD-2	08-21767-NM43N	SW8270D	Chrysene	3800	ug/kg		J	9
SD-2	08-21767-NM43N	SW8270D	Fluoranthene	26000	ug/kg	E	DNR	20
SD-2	08-21767-NM43N	SW8270D	Fluorene	12000	ug/kg	E	DNR	20
SD-2	08-21767-NM43N	SW8270D	Indeno(1,2,3-cd)pyrene	190	ug/kg		J	9
SD-2	08-21767-NM43N	SW8270D	Phenanthrene	62000	ug/kg	ES	DNR	20
SD-2	08-21767-NM43N	SW8270D	Pyrene	21000	ug/kg	E	DNR	20
SD-2	08-21767-NM43NDL	SW8270D	1,2,4-Trichlorobenzene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	1,2-Dichlorobenzene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	1,3-Dichlorobenzene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	1,4-Dichlorobenzene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,4,5-Trichlorophenol	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,4,6-Trichlorophenol	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,4-Dichlorophenol	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,4-Dimethylphenol	2200	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal North - Transect Q1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
SD-2	08-21767-NM43NDL	SW8270D	2,4-Dinitrophenol	22000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,4-Dinitrotoluene	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2,6-Dinitrotoluene	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2-Chloronaphthalene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2-Chlorophenol	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2-Methylphenol	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2-Nitroaniline	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	2-Nitrophenol	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	3,3'-Dichlorobenzidine	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	3-Nitroaniline	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4,6-Dinitro-2-Methylphenol	22000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Bromophenyl-phenylether	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Chloro-3-methylphenol	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Chloroaniline	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Chlorophenyl-phenylether	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Methylphenol	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Nitroaniline	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	4-Nitrophenol	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Acenaphthylene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzo(a)anthracene	3700	ug/kg		DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzo(a)pyrene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzo(b)fluoranthene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzo(g,h,i)perylene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzo(k)fluoranthene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzoic Acid	22000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Benzyl Alcohol	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	bis(2-Chloroethoxy) Methane	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Bis-(2-Chloroethyl) Ether	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	bis(2-Ethylhexyl)phthalate	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Butylbenzylphthalate	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Carbazole	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Chrysene	4200	ug/kg		DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Dibenz(a,h)anthracene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Dibenzofuran	5300	ug/kg		DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Diethylphthalate	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Dimethylphthalate	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Di-n-Butylphthalate	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Di-n-Octyl phthalate	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Fluoranthene	30000	ug/kg		J	9
SD-2	08-21767-NM43NDL	SW8270D	Hexachlorobenzene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Hexachlorobutadiene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Hexachlorocyclopentadiene	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Hexachloroethane	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Indeno(1,2,3-cd)pyrene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Isophorone	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Naphthalene	3100	ug/kg		DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Nitrobenzene	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	N-Nitroso-Di-N-Propylamine	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	N-Nitrosodiphenylamine	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Pentachlorophenol	11000	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Phenol	2200	ug/kg	U	DNR	11
SD-2	08-21767-NM43NDL	SW8270D	Pyrene	31000	ug/kg		J	9
Q1-Sed	08-21769-NM43P	SW8151A	Dinoseb	22	ug/kg	U	R	8,10

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-A-1.0	08-21714-NM40A	NWTPH-Dx	Diesel Range Hydrocarbons	220	mg/kg		J	8,9
Q2-A-1.0	08-21714-NM40A	SW8270D	Benzoic Acid	3000	ug/kg	U	UJ	10
Q2-A-5.0	08-21715-NM40B	SW8270D	Benzoic Acid	660	ug/kg	U	UJ	10
Q2-B-1.0	08-21716-NM40C	SW8270D	Benzoic Acid	630	ug/kg	U	UJ	10
Q2-B-5.0	08-21717-NM40D	SW8270D	Benzoic Acid	620	ug/kg	U	UJ	10
Q2-C-3.5	08-21718-NM40E	SW8270D	Benzo(a)pyrene	7300	ug/kg	E	DNR	20
Q2-C-3.5	08-21718-NM40E	SW8270D	Benzo(b)fluoranthene	9600	ug/kg	E	DNR	20
Q2-C-3.5	08-21718-NM40E	SW8270D	Benzoic Acid	630	ug/kg	U	UJ	10
Q2-C-3.5	08-21718-NM40E	SW8270D	Chrysene	5100	ug/kg	E	DNR	20
Q2-C-3.5	08-21718-NM40E	SW8270D	Fluoranthene	5600	ug/kg	E	DNR	20
Q2-C-3.5	08-21718-NM40E	SW8270D	Pyrene	6000	ug/kg	E	DNR	20
Q2-C-3.5	08-21718-NM40EDL	SW8270D	1,2,4-Trichlorobenzene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	1,2-Dichlorobenzene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	1,3-Dichlorobenzene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	1,4-Dichlorobenzene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	1-Methylnaphthalene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,4,5-Trichlorophenol	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,4,6-Trichlorophenol	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,4-Dichlorophenol	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,4-Dimethylphenol	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,4-Dinitrophenol	3100	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,4-Dinitrotoluene	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2,6-Dinitrotoluene	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2-Chloronaphthalene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2-Chlorophenol	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2-Methylnaphthalene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2-Methylphenol	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2-Nitroaniline	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	2-Nitrophenol	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	3,3'-Dichlorobenzidine	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	3-Nitroaniline	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4,6-Dinitro-2-Methylphenol	3100	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Bromophenyl-phenylether	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Chloro-3-methylphenol	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Chloroaniline	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Chlorophenyl-phenylether	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Methylphenol	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Nitroaniline	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	4-Nitrophenol	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Acenaphthene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Acenaphthylene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Anthracene	620	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Benzo(a)anthracene	4500	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Benzo(g,h,i)perylene	3900	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Benzo(k)fluoranthene	6000	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Benzoic Acid	3100	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Benzyl Alcohol	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	bis(2-Chloroethoxy) Methane	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Bis-(2-Chloroethyl) Ether	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	bis(2-Ethylhexyl)phthalate	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Butylbenzylphthalate	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Carbazole	310	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Dibenz(a,h)anthracene	850	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Dibenzofuran	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Diethylphthalate	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Dimethylphthalate	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Di-n-Butylphthalate	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Di-n-Octyl phthalate	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Fluorene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Hexachlorobenzene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Hexachlorobutadiene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Hexachlorocyclopentadiene	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Hexachloroethane	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Indeno(1,2,3-cd)pyrene	3800	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Isophorone	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Naphthalene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Nitrobenzene	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	N-Nitroso-Di-N-Propylamine	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	N-Nitrosodiphenylamine	310	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Pentachlorophenol	1600	ug/kg	U	DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Phenanthrene	1200	ug/kg		DNR	11
Q2-C-3.5	08-21718-NM40EDL	SW8270D	Phenol	310	ug/kg	U	DNR	11
Q2-C-5.0	08-21719-NM40F	SW8270D	Benzoic Acid	630	ug/kg	U	UJ	10
Q2-C-13.0	08-21720-NM40G	SW8270D	1-Methylnaphthalene	51000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	2-Methylnaphthalene	98000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Acenaphthene	39000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Anthracene	29000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Benzo(a)anthracene	48000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Benzo(a)pyrene	34000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Benzo(b)fluoranthene	41000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Benzo(k)fluoranthene	25000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Benzoic Acid	2400	ug/kg	U	UJ	10
Q2-C-13.0	08-21720-NM40G	SW8270D	Carbazole	23000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Chrysene	28000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Dibenzofuran	44000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Fluoranthene	170000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Fluorene	68000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Naphthalene	190000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Phenanthrene	230000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40G	SW8270D	Pyrene	100000	ug/kg	E	DNR	20
Q2-C-13.0	08-21720-NM40GDL	SW8270D	1,2,4-Trichlorobenzene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	1,2-Dichlorobenzene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	1,3-Dichlorobenzene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	1,4-Dichlorobenzene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,4,5-Trichlorophenol	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,4,6-Trichlorophenol	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,4-Dichlorophenol	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,4-Dimethylphenol	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,4-Dinitrophenol	48000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,4-Dinitrotoluene	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2,6-Dinitrotoluene	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2-Chloronaphthalene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2-Chlorophenol	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2-Methylphenol	4800	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2-Nitroaniline	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	2-Nitrophenol	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	3,3'-Dichlorobenzidine	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	3-Nitroaniline	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4,6-Dinitro-2-Methylphenol	48000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Bromophenyl-phenylether	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Chloro-3-methylphenol	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Chloroaniline	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Chlorophenyl-phenylether	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Methylphenol	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Nitroaniline	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	4-Nitrophenol	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Acenaphthylene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Benzo(g,h,i)perylene	12000	ug/kg		DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Benzoic Acid	48000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Benzyl Alcohol	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	bis(2-Chloroethoxy) Methane	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Bis-(2-Chloroethyl) Ether	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	bis(2-Ethylhexyl)phthalate	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Butylbenzylphthalate	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Dibenz(a,h)anthracene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Diethylphthalate	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Dimethylphthalate	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Di-n-Butylphthalate	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Di-n-Octyl phthalate	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Hexachlorobenzene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Hexachlorobutadiene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Hexachlorocyclopentadiene	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Hexachloroethane	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Indeno(1,2,3-cd)pyrene	11000	ug/kg		DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Isophorone	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Nitrobenzene	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	N-Nitroso-Di-N-Propylamine	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	N-Nitrosodiphenylamine	4800	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Pentachlorophenol	24000	ug/kg	U	DNR	11
Q2-C-13.0	08-21720-NM40GDL	SW8270D	Phenol	4800	ug/kg	U	DNR	11
Q2-C-25.0	08-21721-NM40H	SW8270D	Benzoic Acid	620	ug/kg	U	UJ	10
Q2-D-3.5	08-21722-NM40I	SW6010B	Copper	52.2	mg/kg		J	8
Q2-D-3.5	08-21722-NM40I	SW6010B	Zinc	140	mg/kg		J	8,9
Q2-D-3.5	08-21722-NM40I	SW8081	delta-BHC	28	ug/kg	Y	U	22
Q2-D-3.5	08-21722-NM40I	SW8270D	Benzo(a)anthracene	42000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Benzo(a)pyrene	65000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Benzo(b)fluoranthene	100000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Benzo(g,h,i)perylene	34000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Benzoic Acid	3000	ug/kg	U	UJ	10
Q2-D-3.5	08-21722-NM40I	SW8270D	Chrysene	48000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Fluoranthene	29000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Indeno(1,2,3-cd)pyrene	31000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40I	SW8270D	Pyrene	44000	ug/kg	E	DNR	20
Q2-D-3.5	08-21722-NM40IDL	SW8081	4,4'-DDD	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	4,4'-DDE	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	4,4'-DDT	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Aldrin	160	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-3.5	08-21722-NM40IDL	SW8081	alpha Chlordane	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	alpha-BHC	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	beta-BHC	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	delta-BHC	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Dieldrin	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Endosulfan I	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Endosulfan II	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Endosulfan Sulfate	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Endrin	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Endrin Aldehyde	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Endrin Ketone	320	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	gamma Chlordane	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	gamma-BHC (Lindane)	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Heptachlor	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Heptachlor Epoxide	160	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Methoxychlor	1600	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8081	Toxaphene	16000	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	1,2,4-Trichlorobenzene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	1,2-Dichlorobenzene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	1,3-Dichlorobenzene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	1,4-Dichlorobenzene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	1-Methylnaphthalene	3000	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,4,5-Trichlorophenol	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,4,6-Trichlorophenol	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,4-Dichlorophenol	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,4-Dimethylphenol	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,4-Dinitrophenol	18000	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,4-Dinitrotoluene	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2,6-Dinitrotoluene	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2-Chloronaphthalene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2-Chlorophenol	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2-Methylnaphthalene	3700	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2-Methylphenol	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2-Nitroaniline	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	2-Nitrophenol	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	3,3'-Dichlorobenzidine	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	3-Nitroaniline	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4,6-Dinitro-2-Methylphenol	18000	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Bromophenyl-phenylether	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Chloro-3-methylphenol	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Chloroaniline	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Chlorophenyl-phenylether	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Methylphenol	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Nitroaniline	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	4-Nitrophenol	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Acenaphthene	2800	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Acenaphthylene	4200	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Anthracene	10000	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Benzo(k)fluoranthene	47000	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Benzoic Acid	18000	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Benzyl Alcohol	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	bis(2-Chloroethoxy) Methane	1800	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Bis-(2-Chloroethyl) Ether	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	bis(2-Ethylhexyl)phthalate	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Butylbenzylphthalate	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Carbazole	2900	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Dibenz(a,h)anthracene	9200	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Dibenzofuran	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Diethylphthalate	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Dimethylphthalate	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Di-n-Butylphthalate	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Di-n-Octyl phthalate	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Fluorene	2600	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Hexachlorobenzene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Hexachlorobutadiene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Hexachlorocyclopentadiene	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Hexachloroethane	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Isophorone	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Naphthalene	6300	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Nitrobenzene	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	N-Nitroso-Di-N-Propylamine	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	N-Nitrosodiphenylamine	1800	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Pentachlorophenol	9100	ug/kg	U	DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Phenanthrene	24000	ug/kg		DNR	11
Q2-D-3.5	08-21722-NM40IDL	SW8270D	Phenol	1800	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40J	SW6010B	Copper	9.9	mg/kg		J	8
Q2-D-5.0	08-21723-NM40J	SW6010B	Zinc	35	mg/kg		J	8,9
Q2-D-5.0	08-21723-NM40J	SW8081	Aldrin	41	ug/kg	Y	U	22
Q2-D-5.0	08-21723-NM40J	SW8081	delta-BHC	41	ug/kg	Y	U	22
Q2-D-5.0	08-21723-NM40J	SW8081	gamma Chlordane	86	ug/kg	Y	U	22
Q2-D-5.0	08-21723-NM40J	SW8082	Aroclor 1248	65	ug/kg	Y	U	22
Q2-D-5.0	08-21723-NM40J	SW8270D	Benzo(a)anthracene	250000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Benzo(a)pyrene	190000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Benzo(b)fluoranthene	280000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Benzo(g,h,i)perylene	76000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Benzo(k)fluoranthene	150000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Benzoic Acid	3800	ug/kg	U	UJ	10
Q2-D-5.0	08-21723-NM40J	SW8270D	Chrysene	220000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Fluoranthene	170000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Indeno(1,2,3-cd)pyrene	83000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40J	SW8270D	Pyrene	270000	ug/kg	E	DNR	20
Q2-D-5.0	08-21723-NM40JDL	SW8081	4,4'-DDD	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	4,4'-DDE	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	4,4'-DDT	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Aldrin	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	alpha Chlordane	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	alpha-BHC	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	beta-BHC	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	delta-BHC	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Dieldrin	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Endosulfan I	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Endosulfan II	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Endosulfan Sulfate	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Endrin	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Endrin Aldehyde	320	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-5.0	08-21723-NM40JDL	SW8081	Endrin Ketone	320	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	gamma Chlordane	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	gamma-BHC (Lindane)	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Heptachlor	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Heptachlor Epoxide	160	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Methoxychlor	1600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8081	Toxaphene	16000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	1,2,4-Trichlorobenzene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	1,2-Dichlorobenzene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	1,3-Dichlorobenzene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	1,4-Dichlorobenzene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	1-Methylnaphthalene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,4,5-Trichlorophenol	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,4,6-Trichlorophenol	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,4-Dichlorophenol	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,4-Dimethylphenol	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,4-Dinitrophenol	76000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,4-Dinitrotoluene	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2,6-Dinitrotoluene	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2-Chloronaphthalene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2-Chlorophenol	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2-Methylnaphthalene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2-Methylphenol	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2-Nitroaniline	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	2-Nitrophenol	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	3,3'-Dichlorobenzidine	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	3-Nitroaniline	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4,6-Dinitro-2-Methylphenol	76000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Bromophenyl-phenylether	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Chloro-3-methylphenol	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Chloroaniline	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Chlorophenyl-phenylether	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Methylphenol	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Nitroaniline	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	4-Nitrophenol	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Acenaphthene	10000	ug/kg		DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Acenaphthylene	10000	ug/kg		DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Anthracene	22000	ug/kg		DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Benzoic Acid	76000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Benzyl Alcohol	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	bis(2-Chloroethoxy) Methane	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Bis-(2-Chloroethyl) Ether	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	bis(2-Ethylhexyl)phthalate	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Butylbenzylphthalate	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Carbazole	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Dibenz(a,h)anthracene	29000	ug/kg		DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Dibenzofuran	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Diethylphthalate	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Dimethylphthalate	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Di-n-Butylphthalate	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Di-n-Octyl phthalate	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Fluorene	7600	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Hexachlorobenzene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Hexachlorobutadiene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Hexachlorocyclopentadiene	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Hexachloroethane	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Isophorone	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Naphthalene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Nitrobenzene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	N-Nitroso-Di-N-Propylamine	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	N-Nitrosodiphenylamine	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Pentachlorophenol	38000	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Phenanthrene	7600	ug/kg	U	DNR	11
Q2-D-5.0	08-21723-NM40JDL	SW8270D	Phenol	7600	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40K	SW8270D	1-Methylnaphthalene	25000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	2-Methylnaphthalene	54000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Acenaphthene	13000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Anthracene	11000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Benzo(a)anthracene	9400	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Benzo(b)fluoranthene	5200	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Benzoic Acid	610	ug/kg	U	UJ	10
Q2-D-10.0	08-21724-NM40K	SW8270D	Carbazole	5700	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Chrysene	6400	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Dibenzofuran	15000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Fluoranthene	63000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Fluorene	25000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Naphthalene	54000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Phenanthrene	120000	ug/kg	ES	DNR	20
Q2-D-10.0	08-21724-NM40K	SW8270D	Pyrene	25000	ug/kg	E	DNR	20
Q2-D-10.0	08-21724-NM40KDL	SW8270D	1,2,4-Trichlorobenzene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	1,2-Dichlorobenzene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	1,3-Dichlorobenzene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	1,4-Dichlorobenzene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,4,5-Trichlorophenol	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,4,6-Trichlorophenol	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,4-Dichlorophenol	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,4-Dimethylphenol	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,4-Dinitrophenol	24000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,4-Dinitrotoluene	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2,6-Dinitrotoluene	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2-Chloronaphthalene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2-Chlorophenol	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2-Methylphenol	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2-Nitroaniline	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	2-Nitrophenol	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	3,3'-Dichlorobenzidine	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	3-Nitroaniline	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4,6-Dinitro-2-Methylphenol	24000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Bromophenyl-phenylether	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Chloro-3-methylphenol	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Chloroaniline	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Chlorophenyl-phenylether	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Methylphenol	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Nitroaniline	12000	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-10.0	08-21724-NM40KDL	SW8270D	4-Nitrophenol	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Acenaphthylene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Benzo(a)pyrene	5400	ug/kg		DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Benzo(g,h,i)perylene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Benzo(k)fluoranthene	4000	ug/kg		DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Benzoic Acid	24000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Benzyl Alcohol	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	bis(2-Chloroethoxy) Methane	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Bis-(2-Chloroethyl) Ether	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	bis(2-Ethylhexyl)phthalate	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Butylbenzylphthalate	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Dibenz(a,h)anthracene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Diethylphthalate	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Dimethylphthalate	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Di-n-Butylphthalate	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Di-n-Octyl phthalate	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Hexachlorobenzene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Hexachlorobutadiene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Hexachlorocyclopentadiene	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Hexachloroethane	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Indeno(1,2,3-cd)pyrene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Isophorone	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Nitrobenzene	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	N-Nitroso-Di-N-Propylamine	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	N-Nitrosodiphenylamine	2400	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Pentachlorophenol	12000	ug/kg	U	DNR	11
Q2-D-10.0	08-21724-NM40KDL	SW8270D	Phenol	2400	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40L	SW8270D	2-Methylnaphthalene	8600	ug/kg	E	DNR	20
Q2-D-13.0	08-21725-NM40L	SW8270D	Benzoic Acid	640	ug/kg	U	UJ	10
Q2-D-13.0	08-21725-NM40L	SW8270D	Naphthalene	14000	ug/kg	E	DNR	20
Q2-D-13.0	08-21725-NM40L	SW8270D	Phenanthrene	6100	ug/kg	E	DNR	20
Q2-D-13.0	08-21725-NM40LDL	SW8270D	1,2,4-Trichlorobenzene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	1,2-Dichlorobenzene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	1,3-Dichlorobenzene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	1,4-Dichlorobenzene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	1-Methylnaphthalene	4900	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,4,5-Trichlorophenol	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,4,6-Trichlorophenol	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,4-Dichlorophenol	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,4-Dimethylphenol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,4-Dinitrophenol	3200	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,4-Dinitrotoluene	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2,6-Dinitrotoluene	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2-Chloronaphthalene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2-Chlorophenol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2-Methylphenol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2-Nitroaniline	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	2-Nitrophenol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	3,3'-Dichlorobenzidine	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	3-Nitroaniline	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4,6-Dinitro-2-Methylphenol	3200	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Bromophenyl-phenylether	320	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Chloro-3-methylphenol	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Chloroaniline	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Chlorophenyl-phenylether	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Methylphenol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Nitroaniline	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	4-Nitrophenol	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Acenaphthene	4400	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Acenaphthylene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Anthracene	1300	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzo(a)anthracene	1200	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzo(a)pyrene	1200	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzo(b)fluoranthene	1400	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzo(g,h,i)perylene	420	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzo(k)fluoranthene	950	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzoic Acid	3200	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Benzyl Alcohol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	bis(2-Chloroethoxy) Methane	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Bis-(2-Chloroethyl) Ether	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	bis(2-Ethylhexyl)phthalate	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Butylbenzylphthalate	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Carbazole	1400	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Chrysene	1300	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Dibenz(a,h)anthracene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Dibenzofuran	2300	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Diethylphthalate	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Dimethylphthalate	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Di-n-Butylphthalate	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Di-n-Octyl phthalate	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Fluoranthene	3600	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Fluorene	3500	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Hexachlorobenzene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Hexachlorobutadiene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Hexachlorocyclopentadiene	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Hexachloroethane	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Indeno(1,2,3-cd)pyrene	470	ug/kg		DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Isophorone	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Nitrobenzene	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	N-Nitroso-Di-N-Propylamine	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	N-Nitrosodiphenylamine	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Pentachlorophenol	1600	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Phenol	320	ug/kg	U	DNR	11
Q2-D-13.0	08-21725-NM40LDL	SW8270D	Pyrene	2600	ug/kg		DNR	11
Q2-D-18.0	08-21726-NM40M	SW8270D	1-Methylnaphthalene	86000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	2-Methylnaphthalene	180000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Acenaphthene	39000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Anthracene	31000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Benzo(a)anthracene	37000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Benzo(a)pyrene	22000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Benzo(b)fluoranthene	24000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Benzoic Acid	2100	ug/kg	U	UJ	10
Q2-D-18.0	08-21726-NM40M	SW8270D	Chrysene	22000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Dibenzofuran	40000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Fluoranthene	160000	ug/kg	E	DNR	20

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-18.0	08-21726-NM40M	SW8270D	Fluorene	70000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Naphthalene	200000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Phenanthrene	290000	ug/kg	ES	DNR	20
Q2-D-18.0	08-21726-NM40M	SW8270D	Pyrene	86000	ug/kg	E	DNR	20
Q2-D-18.0	08-21726-NM40MDL	SW8270D	1,2,4-Trichlorobenzene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	1,2-Dichlorobenzene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	1,3-Dichlorobenzene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	1,4-Dichlorobenzene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,4,5-Trichlorophenol	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,4,6-Trichlorophenol	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,4-Dichlorophenol	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,4-Dimethylphenol	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,4-Dinitrophenol	85000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,4-Dinitrotoluene	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2,6-Dinitrotoluene	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2-Chloronaphthalene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2-Chlorophenol	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2-Methylphenol	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2-Nitroaniline	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	2-Nitrophenol	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	3,3'-Dichlorobenzidine	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	3-Nitroaniline	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4,6-Dinitro-2-Methylphenol	85000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Bromophenyl-phenylether	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Chloro-3-methylphenol	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Chloroaniline	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Chlorophenyl-phenylether	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Methylphenol	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Nitroaniline	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	4-Nitrophenol	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Acenaphthylene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Benzo(g,h,i)perylene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Benzo(k)fluoranthene	21000	ug/kg		DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Benzoic Acid	85000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Benzyl Alcohol	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	bis(2-Chloroethoxy) Methane	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Bis-(2-Chloroethyl) Ether	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	bis(2-Ethylhexyl)phthalate	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Butylbenzylphthalate	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Carbazole	10000	ug/kg		DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Dibenz(a,h)anthracene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Diethylphthalate	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Dimethylphthalate	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Di-n-Butylphthalate	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Di-n-Octyl phthalate	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Hexachlorobenzene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Hexachlorobutadiene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Hexachlorocyclopentadiene	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Hexachloroethane	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Indeno(1,2,3-cd)pyrene	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Isophorone	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Nitrobenzene	8500	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal South - Transect Q2

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q2-D-18.0	08-21726-NM40MDL	SW8270D	N-Nitroso-Di-N-Propylamine	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	N-Nitrosodiphenylamine	8500	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Pentachlorophenol	42000	ug/kg	U	DNR	11
Q2-D-18.0	08-21726-NM40MDL	SW8270D	Phenol	8500	ug/kg	U	DNR	11
Q2-D-35.0	08-21727-NM40N	SW8270D	Benzoic Acid	630	ug/kg	U	UJ	10

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal -Transect Q3

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q3-A-1.0	08-21748-NM42A	SW8270D	Fluoranthene	1400000	ug/kg	E	DNR	20
Q3-A-1.0	08-21748-NM42ADL	SW8270D	1,2,4-Trichlorobenzene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	1,2-Dichlorobenzene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	1,3-Dichlorobenzene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	1,4-Dichlorobenzene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	1-Methylnaphthalene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,2'-Oxybis(1-Chloropropane)	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,4,5-Trichlorophenol	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,4,6-Trichlorophenol	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,4-Dichlorophenol	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,4-Dimethylphenol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,4-Dinitrophenol	280000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,4-Dinitrotoluene	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2,6-Dinitrotoluene	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2-Chloronaphthalene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2-Chlorophenol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2-Methylnaphthalene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2-Methylphenol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2-Nitroaniline	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	2-Nitrophenol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	3,3'-Dichlorobenzidine	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	3-Nitroaniline	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4,6-Dinitro-2-Methylphenol	280000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Bromophenyl-phenylether	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Chloro-3-methylphenol	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Chloroaniline	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Chlorophenyl-phenylether	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Methylphenol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Nitroaniline	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	4-Nitrophenol	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Acenaphthene	88000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Acenaphthylene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Anthracene	92000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzo(a)anthracene	380000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzo(a)pyrene	260000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzo(b)fluoranthene	270000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzo(g,h,i)perylene	120000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzo(k)fluoranthene	210000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzoic Acid	280000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Benzyl Alcohol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	bis(2-Chloroethoxy) Methane	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Bis-(2-Chloroethyl) Ether	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	bis(2-Ethylhexyl)phthalate	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Butylbenzylphthalate	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Carbazole	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Chrysene	460000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Dibenz(a,h)anthracene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Dibenzofuran	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Diethylphthalate	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Dimethylphthalate	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Di-n-Butylphthalate	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Di-n-Octyl phthalate	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Fluorene	46000	ug/kg		DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal -Transect Q3

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Hexachlorobenzene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Hexachlorobutadiene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Hexachlorocyclopentadiene	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Hexachloroethane	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Indeno(1,2,3-cd)pyrene	110000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Isophorone	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Naphthalene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Nitrobenzene	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	N-Nitroso-Di-N-Propylamine	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	N-Nitrosodiphenylamine	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Pentachlorophenol	140000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Phenanthrene	260000	ug/kg		DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Phenol	28000	ug/kg	U	DNR	11
Q3-A-1.0	08-21748-NM42ADL	SW8270D	Pyrene	970000	ug/kg		DNR	11

QUALIFIED DATA SUMMARY TABLE

POS BNSF ROW

Baxter Mills - Transect B1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
B1-A-1.0	08-21932-NM59A	NWTPH-Dx	Diesel Range Hydrocarbons	180	mg/kg		J	9
B1-A-3.5	08-21933-NM59B	SW8270D	Benzyl Alcohol	66	ug/kg	U	UJ	5B
B1-A-5.0	08-21934-NM59C	SW8270D	Benzyl Alcohol	62	ug/kg	U	UJ	5B
B1-A-10.0	08-21935-NM59D	SW8270D	Benzyl Alcohol	63	ug/kg	U	UJ	5B
B1-A-15.0	08-21936-NM59E	SW8270D	Benzyl Alcohol	65	ug/kg	U	UJ	5B
B1-A-20.0	08-21937-NM59F	SW8270D	Benzyl Alcohol	63	ug/kg	U	UJ	5B
B1-A-24.0	08-21938-NM59G	SW8270D	Benzyl Alcohol	66	ug/kg	U	UJ	5B
B1-B-1.0	08-21939-NM59H	SW8270D	Benzo(a)pyrene	55000	ug/kg	E	DNR	20
B1-B-1.0	08-21939-NM59H	SW8270D	Chrysene	51000	ug/kg	E	DNR	20
B1-B-1.0	08-21939-NM59H	SW8270D	Fluoranthene	67000	ug/kg	E	DNR	20
B1-B-1.0	08-21939-NM59H	SW8270D	Phenanthrene	82000	ug/kg	E	DNR	20
B1-B-1.0	08-21939-NM59H	SW8270D	Pyrene	100000	ug/kg	E	DNR	20
B1-B-1.0	08-21939-NM59HDL	SW8270D	1,2,4-Trichlorobenzene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	1,2-Dichlorobenzene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	1,3-Dichlorobenzene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	1,4-Dichlorobenzene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	1-Methylnaphthalene	8100	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,2'-Oxybis(1-Chloropropane)	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,4,5-Trichlorophenol	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,4,6-Trichlorophenol	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,4-Dichlorophenol	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,4-Dimethylphenol	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,4-Dinitrophenol	24000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,4-Dinitrotoluene	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2,6-Dinitrotoluene	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2-Chloronaphthalene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2-Chlorophenol	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2-Methylnaphthalene	10000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2-Methylphenol	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2-Nitroaniline	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	2-Nitrophenol	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	3,3'-Dichlorobenzidine	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	3-Nitroaniline	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4,6-Dinitro-2-Methylphenol	24000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Bromophenyl-phenylether	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Chloro-3-methylphenol	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Chloroaniline	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Chlorophenyl-phenylether	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Methylphenol	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Nitroaniline	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	4-Nitrophenol	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Acenaphthene	15000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Acenaphthylene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Anthracene	22000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Benzo(a)anthracene	47000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Benzo(b)fluoranthene	40000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Benzo(g,h,i)perylene	19000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Benzo(k)fluoranthene	38000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Benzoic Acid	24000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Benzyl Alcohol	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	bis(2-Chloroethoxy) Methane	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Bis-(2-Chloroethyl) Ether	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	bis(2-Ethylhexyl)phthalate	2400	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Baxter Mills - Transect B1

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
B1-B-1.0	08-21939-NM59HDL	SW8270D	Butylbenzylphthalate	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Carbazole	5600	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Dibenz(a,h)anthracene	3600	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Dibenzofuran	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Diethylphthalate	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Dimethylphthalate	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Di-n-Butylphthalate	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Di-n-Octyl phthalate	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Fluorene	8700	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Hexachlorobenzene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Hexachlorobutadiene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Hexachlorocyclopentadiene	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Hexachloroethane	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Indeno(1,2,3-cd)pyrene	14000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Isophorone	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Naphthalene	16000	ug/kg		DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Nitrobenzene	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	N-Nitroso-Di-N-Propylamine	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	N-Nitrosodiphenylamine	2400	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Pentachlorophenol	12000	ug/kg	U	DNR	11
B1-B-1.0	08-21939-NM59HDL	SW8270D	Phenol	2400	ug/kg	U	DNR	11
B1-B-3.0	08-21940-NM59I	SW8270D	Benzyl Alcohol	61	ug/kg	U	UJ	5B
DS-1	08-21943-NM59L	NWTPH-Dx	Diesel Range Hydrocarbons	320	mg/kg		J	9

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q4-2.5	08-29725-NX66A	SW8270D	Anthracene	86000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Benzo(a)anthracene	18000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Benzo(a)pyrene	14000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Benzo(b)fluoranthene	18000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Benzo(k)fluoranthene	13000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Chrysene	67000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Fluoranthene	23000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Fluorene	9600	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Naphthalene	17000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Phenanthrene	18000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66A	SW8270D	Pyrene	32000	ug/kg	E	DNR	20
Q4-2.5	08-29725-NX66ADL	SW8270D	1-Methylnaphthalene	2200	ug/kg		DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	2-Methylnaphthalene	3300	ug/kg		DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	Acenaphthene	4100	ug/kg		DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	Acenaphthylene	2000	ug/kg	U	DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	Benzo(g,h,i)perylene	8700	ug/kg		DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	Dibenz(a,h)anthracene	4200	ug/kg		DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	Dibenzofuran	2900	ug/kg		DNR	11
Q4-2.5	08-29725-NX66ADL	SW8270D	Indeno(1,2,3-cd)pyrene	8300	ug/kg		DNR	11
Q4-15.0	08-29727-NX66C	SW8021B	Benzene	750	ug/kg		J	9
Q4-15.0	08-29727-NX66C	SW8270D	Dibenzofuran	130000	ug/kg		J	9
Q4-15.0	08-29727-NX66C	SW8270D	Naphthalene	1100000	ug/kg	E	DNR	20
Q4-15.0	08-29727-NX66CDL	SW8270D	1-Methylnaphthalene	250000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	2-Methylnaphthalene	430000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Acenaphthene	300000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Acenaphthylene	36000	ug/kg	U	DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Anthracene	77000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Benzo(a)anthracene	110000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Benzo(a)pyrene	81000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Benzo(b)fluoranthene	73000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Benzo(g,h,i)perylene	36000	ug/kg	U	DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Benzo(k)fluoranthene	51000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Chrysene	72000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Dibenz(a,h)anthracene	36000	ug/kg	U	DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Dibenzofuran	130000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Fluoranthene	320000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Fluorene	180000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Indeno(1,2,3-cd)pyrene	36000	ug/kg	U	DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Phenanthrene	650000	ug/kg		DNR	11
Q4-15.0	08-29727-NX66CDL	SW8270D	Pyrene	300000	ug/kg		DNR	11
Q5-18.0	08-29733-NX66I	SW8270D	Phenanthrene	6500	ug/kg	E	DNR	20
Q5-18.0	08-29733-NX66IDL	SW8270D	1-Methylnaphthalene	1900	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	2-Methylnaphthalene	2800	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Acenaphthene	2600	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Acenaphthylene	190	ug/kg	U	DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Anthracene	1300	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Benzo(a)anthracene	1000	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Benzo(a)pyrene	610	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Benzo(b)fluoranthene	620	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Benzo(g,h,i)perylene	200	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Benzo(k)fluoranthene	350	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Chrysene	940	ug/kg		DNR	11

QUALIFIED DATA SUMMARY TABLE

POS BNSF ROW

Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q5-18.0	08-29733-NX66IDL	SW8270D	Dibenz(a,h)anthracene	190	ug/kg	U	DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Dibenzofuran	1300	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Fluoranthene	3800	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Fluorene	2200	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Indeno(1,2,3-cd)pyrene	190	ug/kg	U	DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Naphthalene	1900	ug/kg		DNR	11
Q5-18.0	08-29733-NX66IDL	SW8270D	Pyrene	3500	ug/kg		DNR	11
Q6-4.0	08-29736-NX66K	SW8270D	Acenaphthene	770000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Anthracene	1600000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Benzo(a)anthracene	1600000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Benzo(a)pyrene	1800000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Benzo(b)fluoranthene	1400000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Benzo(g,h,i)perylene	820000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Benzo(k)fluoranthene	1600000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Chrysene	1900000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Fluoranthene	2400000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Phenanthrene	2800000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66K	SW8270D	Pyrene	3400000	ug/kg	E	DNR	20
Q6-4.0	08-29736-NX66KDL	SW8270D	1-Methylnaphthalene	92000	ug/kg	U	DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	2-Methylnaphthalene	99000	ug/kg		DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	Acenaphthylene	92000	ug/kg	U	DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	Dibenz(a,h)anthracene	190000	ug/kg		DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	Dibenzofuran	92000	ug/kg	U	DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	Fluorene	170000	ug/kg		DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	Indeno(1,2,3-cd)pyrene	840000	ug/kg		DNR	11
Q6-4.0	08-29736-NX66KDL	SW8270D	Naphthalene	92000	ug/kg	U	DNR	11
Q7-4.0	08-29740-NX66O	SW8270D	Benzo(a)anthracene	22000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Benzo(a)pyrene	22000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Benzo(b)fluoranthene	21000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Benzo(k)fluoranthene	19000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Chrysene	23000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Fluoranthene	28000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Phenanthrene	29000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66O	SW8270D	Pyrene	37000	ug/kg	E	DNR	20
Q7-4.0	08-29740-NX66ODL	SW8270D	1-Methylnaphthalene	4200	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	2-Methylnaphthalene	5400	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Acenaphthene	7400	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Acenaphthylene	1300	ug/kg	U	DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Anthracene	6700	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Benzo(g,h,i)perylene	17000	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Dibenz(a,h)anthracene	4100	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Dibenzofuran	1900	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Fluorene	4700	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Indeno(1,2,3-cd)pyrene	13000	ug/kg		DNR	11
Q7-4.0	08-29740-NX66ODL	SW8270D	Naphthalene	6700	ug/kg		DNR	11
Q7-5.5	08-29741-NX66P	SW8270D	Naphthalene	290000	ug/kg	E	DNR	20
Q7-5.5	08-29741-NX66P	SW8270D	Phenanthrene	240000	ug/kg	E	DNR	20
Q7-5.5	08-29741-NX66P	SW8270D	Pyrene	190000	ug/kg	E	DNR	20
Q7-5.5	08-29741-NX66PDL	SW8270D	1-Methylnaphthalene	59000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	2-Methylnaphthalene	84000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Acenaphthene	65000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Acenaphthylene	11000	ug/kg	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q7-5.5	08-29741-NX66PDL	SW8270D	Anthracene	61000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Benzo(a)anthracene	86000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Benzo(a)pyrene	110000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Benzo(b)fluoranthene	57000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Benzo(g,h,i)perylene	72000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Benzo(k)fluoranthene	40000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Chrysene	110000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Dibenz(a,h)anthracene	14000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Dibenzofuran	11000	ug/kg	U	DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Fluoranthene	140000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Fluorene	43000	ug/kg		DNR	11
Q7-5.5	08-29741-NX66PDL	SW8270D	Indeno(1,2,3-cd)pyrene	47000	ug/kg		DNR	11
Q9-28.0	08-29772-NX71F	SW8270D	Naphthalene	5200	ug/kg	E	DNR	20
Q9-28.0	08-29772-NX71FDL	SW8270D	1-Methylnaphthalene	520	ug/kg		DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	2-Methylnaphthalene	790	ug/kg		DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Acenaphthene	180	ug/kg		DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Acenaphthylene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Anthracene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Benzo(a)anthracene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Benzo(a)pyrene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Benzo(b)fluoranthene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Benzo(g,h,i)perylene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Benzo(k)fluoranthene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Chrysene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Dibenz(a,h)anthracene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Dibenzofuran	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Fluoranthene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Fluorene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Indeno(1,2,3-cd)pyrene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Phenanthrene	180	ug/kg	U	DNR	11
Q9-28.0	08-29772-NX71FDL	SW8270D	Pyrene	180	ug/kg	U	DNR	11
Q10-5.0	08-29773-NX71G	SW8270D	Anthracene	5400	ug/kg	E	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Benzo(a)anthracene	16000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Benzo(a)pyrene	16000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Benzo(b)fluoranthene	16000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Benzo(k)fluoranthene	34000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Chrysene	15000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Fluoranthene	17000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Indeno(1,2,3-cd)pyrene	5100	ug/kg	E	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Phenanthrene	14000	ug/kg	E	DNR	20
Q10-5.0	08-29773-NX71G	SW8270D	Pyrene	19000	ug/kg	ES	DNR	20
Q10-5.0	08-29773-NX71GDL	SW8270D	1-Methylnaphthalene	2000	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	2-Methylnaphthalene	2400	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Acenaphthene	2400	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Acenaphthylene	630	ug/kg	U	DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Benzo(g,h,i)perylene	12000	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Dibenz(a,h)anthracene	3500	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Dibenzofuran	1400	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Fluorene	1400	ug/kg		DNR	11
Q10-5.0	08-29773-NX71GDL	SW8270D	Naphthalene	1900	ug/kg		DNR	11
Q14-6.5	08-29837-NX79D	SW8270D	Phenanthrene	63000	ug/kg	E	DNR	20
Q14-6.5	08-29837-NX79D	SW8270D	Pyrene	62000	ug/kg	E	DNR	20

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q14-6.5	08-29837-NX79DDL	SW8270D	1-Methylnaphthalene	11000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	2-Methylnaphthalene	14000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Acenaphthene	10000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Acenaphthylene	2600	ug/kg	U	DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Anthracene	15000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Benzo(a)anthracene	25000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Benzo(a)pyrene	31000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Benzo(b)fluoranthene	16000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Benzo(g,h,i)perylene	20000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Benzo(k)fluoranthene	18000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Chrysene	33000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Dibenz(a,h)anthracene	3500	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Dibenzofuran	2600	ug/kg	U	DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Fluoranthene	44000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Fluorene	8800	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Indeno(1,2,3-cd)pyrene	12000	ug/kg		DNR	11
Q14-6.5	08-29837-NX79DDL	SW8270D	Naphthalene	34000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79G	SW8270D	Phenanthrene	60000	ug/kg	E	DNR	20
Q15-4.0	08-29840-NX79G	SW8270D	Pyrene	76000	ug/kg	E	DNR	20
Q15-4.0	08-29840-NX79GDL	SW8270D	1-Methylnaphthalene	7600	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	2-Methylnaphthalene	8200	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Acenaphthene	8900	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Acenaphthylene	2400	ug/kg	U	DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Anthracene	13000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Benzo(a)anthracene	34000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Benzo(a)pyrene	44000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Benzo(b)fluoranthene	27000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Benzo(g,h,i)perylene	28000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Benzo(k)fluoranthene	26000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Chrysene	50000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Dibenz(a,h)anthracene	8100	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Dibenzofuran	2400	ug/kg	U	DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Fluoranthene	54000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Fluorene	5900	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Indeno(1,2,3-cd)pyrene	18000	ug/kg		DNR	11
Q15-4.0	08-29840-NX79GDL	SW8270D	Naphthalene	14000	ug/kg		DNR	11
SD-3	08-29852-NX79S	SW8021B	Benzene	340	ug/kg		J	9
SD-3	08-29852-NX79S	SW8270D	1-Methylnaphthalene	220000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	2-Methylnaphthalene	310000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	Acenaphthene	190000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	Dibenzofuran	76000	ug/kg		J	9
SD-3	08-29852-NX79S	SW8270D	Fluoranthene	200000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	Fluorene	140000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	Naphthalene	480000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	Phenanthrene	360000	ug/kg	E	DNR	20
SD-3	08-29852-NX79S	SW8270D	Pyrene	170000	ug/kg	E	DNR	20
SD-3	08-29852-NX79SDL	SW8270D	Acenaphthylene	12000	ug/kg	U	DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Anthracene	70000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Benzo(a)anthracene	68000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Benzo(a)pyrene	48000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Benzo(b)fluoranthene	33000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Benzo(g,h,i)perylene	16000	ug/kg		DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
SD-3	08-29852-NX79SDL	SW8270D	Benzo(k)fluoranthene	50000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Chrysene	49000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Dibenz(a,h)anthracene	12000	ug/kg	U	DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Dibenzofuran	72000	ug/kg		DNR	11
SD-3	08-29852-NX79SDL	SW8270D	Indeno(1,2,3-cd)pyrene	15000	ug/kg		DNR	11
Q4-W	08-29958-NY02K	SW6010B	Arsenic	0.05	mg/l	U	DNR	11
Q4-W	08-29958-NY02K	SW6010B	Lead	0.02	mg/l	U	DNR	11
Q4-W	08-29958-NY02K	SW8270D	1-Methylnaphthalene	640	ug/L	ES	DNR	10
Q4-W	08-29958-NY02K	SW8270D	2-Methylnaphthalene	910	ug/L	ES	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Acenaphthene	200	ug/L	E	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Acenaphthylene	4.9	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Anthracene	45	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Benzo(a)anthracene	30	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Benzo(a)pyrene	21	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Benzo(b)fluoranthene	20	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Benzo(g,h,i)perylene	7	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Benzo(k)fluoranthene	14	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Chrysene	19	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Dibenz(a,h)anthracene	2.6	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Dibenzofuran	110	ug/L	E	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Fluoranthene	95	ug/L	E	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Fluorene	290	ug/L	E	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Indeno(1,2,3-cd)pyrene	7	ug/L		DNR	10
Q4-W	08-29958-NY02K	SW8270D	Naphthalene	87000	ug/L	ES	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Phenanthrene	220	ug/L	E	DNR	10
Q4-W	08-29958-NY02K	SW8270D	Pyrene	79	ug/L		DNR	10
Q4-W	08-29958-NY02KDL	NWTPH-Dx	Diesel Range Hydrocarbons	9.9	mg/L		DNR	11
Q4-W	08-29958-NY02KDL	NWTPH-Dx	Motor Oil	2.5	mg/L	U	DNR	11
Q4-W	08-29958-NY02KRE	SW8270D	1-Methylnaphthalene	710	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	2-Methylnaphthalene	1100	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Acenaphthene	620	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Acenaphthylene	20	ug/L	U	UJ	1
Q4-W	08-29958-NY02KRE	SW8270D	Anthracene	94	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Benzo(a)anthracene	94	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Benzo(a)pyrene	65	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Benzo(b)fluoranthene	60	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Benzo(g,h,i)perylene	28	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Benzo(k)fluoranthene	36	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Chrysene	60	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Dibenz(a,h)anthracene	20	ug/L	U	UJ	1
Q4-W	08-29958-NY02KRE	SW8270D	Dibenzofuran	260	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Fluoranthene	300	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Fluorene	330	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Indeno(1,2,3-cd)pyrene	25	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Naphthalene	8300	ug/L	E	DNR	20
Q4-W	08-29958-NY02KRE	SW8270D	Phenanthrene	840	ug/L		J	1
Q4-W	08-29958-NY02KRE	SW8270D	Pyrene	270	ug/L		J	1
Q4-W	08-29958-NY02KREDL	SW8270D	1-Methylnaphthalene	770	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	2-Methylnaphthalene	1200	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Acenaphthene	690	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Acenaphthylene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Anthracene	200	ug/L	U	DNR	11

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q4-W	08-29958-NY02KREDL	SW8270D	Benzo(a)anthracene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Benzo(a)pyrene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Benzo(b)fluoranthene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Benzo(g,h,i)perylene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Benzo(k)fluoranthene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Chrysene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Dibenz(a,h)anthracene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Dibenzofuran	290	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Fluoranthene	300	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Fluorene	280	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Indeno(1,2,3-cd)pyrene	200	ug/L	U	DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Naphthalene	5300	ug/L		J	1
Q4-W	08-29958-NY02KREDL	SW8270D	Phenanthrene	960	ug/L		DNR	11
Q4-W	08-29958-NY02KREDL	SW8270D	Pyrene	320	ug/L		DNR	11
Q9-W	08-29959-NY02L	SW8270D	1-Methylnaphthalene	8200	ug/L	E	DNR	20
Q9-W	08-29959-NY02L	SW8270D	2-Methylnaphthalene	12000	ug/L	E	DNR	20
Q9-W	08-29959-NY02L	SW8270D	Acenaphthene	6700	ug/L	E	DNR	20
Q9-W	08-29959-NY02L	SW8270D	Acenaphthylene	1000	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Anthracene	3600	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Benzo(a)anthracene	3100	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Benzo(a)pyrene	2000	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Benzo(b)fluoranthene	1900	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Benzo(g,h,i)perylene	800	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Benzo(k)fluoranthene	1400	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Chrysene	2200	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Dibenz(a,h)anthracene	200	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Dibenzofuran	3800	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Fluoranthene	7500	ug/L	E	DNR	20
Q9-W	08-29959-NY02L	SW8270D	Fluorene	11000	ug/L	E	DNR	20
Q9-W	08-29959-NY02L	SW8270D	Indeno(1,2,3-cd)pyrene	760	ug/L		J	10
Q9-W	08-29959-NY02L	SW8270D	Naphthalene	120000	ug/L	ES	DNR	20
Q9-W	08-29959-NY02L	SW8270D	Phenanthrene	14000	ug/L	E	DNR	20
Q9-W	08-29959-NY02L	SW8270D	Pyrene	6200	ug/L	E	DNR	20
Q9-W	08-29959-NY02LDL	SW8270D	1-Methylnaphthalene	10000	ug/L		J	10
Q9-W	08-29959-NY02LDL	SW8270D	2-Methylnaphthalene	17000	ug/L		J	10
Q9-W	08-29959-NY02LDL	SW8270D	Acenaphthene	10000	ug/L		J	10
Q9-W	08-29959-NY02LDL	SW8270D	Acenaphthylene	1100	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Anthracene	2800	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Benzo(a)anthracene	3500	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Benzo(a)pyrene	2300	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Benzo(b)fluoranthene	1800	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Benzo(g,h,i)perylene	1000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Benzo(k)fluoranthene	1500	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Chrysene	2400	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Dibenz(a,h)anthracene	500	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Dibenzofuran	5000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Fluoranthene	10000	ug/L		J	10
Q9-W	08-29959-NY02LDL	SW8270D	Fluorene	7300	ug/L		J	10
Q9-W	08-29959-NY02LDL	SW8270D	Indeno(1,2,3-cd)pyrene	980	ug/L		DNR	11
Q9-W	08-29959-NY02LDL	SW8270D	Naphthalene	65000	ug/L	E	DNR	20
Q9-W	08-29959-NY02LDL	SW8270D	Phenanthrene	23000	ug/L		J	10
Q9-W	08-29959-NY02LDL	SW8270D	Pyrene	11000	ug/L		J	10

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q9-W	08-29959-NY02LDL2	SW8270D	1-Methylnaphthalene	11000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	2-Methylnaphthalene	18000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Acenaphthene	10000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Acenaphthylene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Anthracene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Benzo(a)anthracene	3400	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Benzo(a)pyrene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Benzo(b)fluoranthene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Benzo(g,h,i)perylene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Benzo(k)fluoranthene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Chrysene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Dibenz(a,h)anthracene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Dibenzofuran	5100	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Fluoranthene	10000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Fluorene	6000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Indeno(1,2,3-cd)pyrene	3000	ug/L	U	DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Naphthalene	45000	ug/L		J	10
Q9-W	08-29959-NY02LDL2	SW8270D	Phenanthrene	26000	ug/L		DNR	11
Q9-W	08-29959-NY02LDL2	SW8270D	Pyrene	10000	ug/L		DNR	11
Q12-W	08-29960-NY02M	SW6010B	Arsenic	0.05	mg/l	U	DNR	11
Q12-W	08-29960-NY02M	SW6010B	Lead	0.02	mg/l	U	DNR	11
Q12-W	08-29960-NY02M	SW8270D	1-Methylnaphthalene	2.1	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	2-Methylnaphthalene	3.2	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	Acenaphthene	4.2	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	Acenaphthylene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Anthracene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Benzo(a)anthracene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Benzo(a)pyrene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Chrysene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Dibenzofuran	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Fluoranthene	1.1	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	Fluorene	1.5	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	DNR	10
Q12-W	08-29960-NY02M	SW8270D	Naphthalene	17	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	Phenanthrene	3.1	ug/L		DNR	10
Q12-W	08-29960-NY02M	SW8270D	Pyrene	1	ug/L		DNR	10
Q12-W	08-29960-NY02MRE	SW8270D	1-Methylnaphthalene	1.3	ug/L		J	1
Q12-W	08-29960-NY02MRE	SW8270D	2-Methylnaphthalene	1.7	ug/L		J	1
Q12-W	08-29960-NY02MRE	SW8270D	Acenaphthene	3.7	ug/L		J	1,9
Q12-W	08-29960-NY02MRE	SW8270D	Acenaphthylene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Anthracene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Benzo(a)anthracene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Benzo(a)pyrene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Chrysene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	UJ	1

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q12-W	08-29960-NY02MRE	SW8270D	Dibenzofuran	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Fluoranthene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Fluorene	1.1	ug/L		J	1
Q12-W	08-29960-NY02MRE	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	UJ	1
Q12-W	08-29960-NY02MRE	SW8270D	Naphthalene	7.8	ug/L		J	1,9
Q12-W	08-29960-NY02MRE	SW8270D	Phenanthrene	1.5	ug/L		J	1
Q12-W	08-29960-NY02MRE	SW8270D	Pyrene	1	ug/L	U	UJ	1,9
Q14-W	08-29961-NY02N	SW6010B	Arsenic	0.05	mg/l	U	DNR	11
Q14-W	08-29961-NY02N	SW6010B	Lead	0.02	mg/l	U	DNR	11
Q14-W	08-29961-NY02N	SW8270D	1-Methylnaphthalene	1.1	ug/L		DNR	10
Q14-W	08-29961-NY02N	SW8270D	2-Methylnaphthalene	1.7	ug/L		DNR	10
Q14-W	08-29961-NY02N	SW8270D	Acenaphthene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Acenaphthylene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Anthracene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Benzo(a)anthracene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Benzo(a)pyrene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Chrysene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Dibenzofuran	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Fluoranthene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Fluorene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02N	SW8270D	Naphthalene	7	ug/L		DNR	10
Q14-W	08-29961-NY02N	SW8270D	Phenanthrene	2.1	ug/L		DNR	10
Q14-W	08-29961-NY02N	SW8270D	Pyrene	1	ug/L	U	DNR	10
Q14-W	08-29961-NY02NRE	SW8270D	1-Methylnaphthalene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	2-Methylnaphthalene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Acenaphthene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Acenaphthylene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Anthracene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Benzo(a)anthracene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Benzo(a)pyrene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Chrysene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Dibenzofuran	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Fluoranthene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Fluorene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	UJ	1
Q14-W	08-29961-NY02NRE	SW8270D	Naphthalene	2.7	ug/L		J	1
Q14-W	08-29961-NY02NRE	SW8270D	Phenanthrene	1.3	ug/L		J	1
Q14-W	08-29961-NY02NRE	SW8270D	Pyrene	1.4	ug/L		J	1
Q17-W	08-29962-NY02O	NWTPH-Dx	Diesel Range Hydrocarbons	0.25	mg/L	U	UJ	13
Q17-W	08-29962-NY02O	NWTPH-Dx	Motor Oil	0.5	mg/L	U	UJ	13
Q17-W	08-29962-NY02O	SW6010B	Arsenic	0.05	mg/l	U	DNR	11
Q17-W	08-29962-NY02O	SW6010B	Lead	0.02	mg/l	U	DNR	11
Q17-W	08-29962-NY02O	SW8270D	1-Methylnaphthalene	1	ug/L	U	DNR	10

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
Q17-W	08-29962-NY02O	SW8270D	2-Methylnaphthalene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Acenaphthene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Acenaphthylene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Anthracene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Benzo(a)anthracene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Benzo(a)pyrene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Chrysene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Dibenzofuran	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Fluoranthene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Fluorene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Naphthalene	2.6	ug/L		DNR	10
Q17-W	08-29962-NY02O	SW8270D	Phenanthrene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02O	SW8270D	Pyrene	1	ug/L	U	DNR	10
Q17-W	08-29962-NY02ORE	NWTPH-Dx	Diesel Range Hydrocarbons	0.25	mg/L	U	DNR	11
Q17-W	08-29962-NY02ORE	NWTPH-Dx	Motor Oil	0.5	mg/L	U	DNR	11
Q17-W	08-29962-NY02ORE	SW8270D	1-Methylnaphthalene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	2-Methylnaphthalene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Acenaphthene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Acenaphthylene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Anthracene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Benzo(a)anthracene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Benzo(a)pyrene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Chrysene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Dibenzofuran	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Fluoranthene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Fluorene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Naphthalene	1.1	ug/L		J	1
Q17-W	08-29962-NY02ORE	SW8270D	Phenanthrene	1	ug/L	U	UJ	1
Q17-W	08-29962-NY02ORE	SW8270D	Pyrene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02P	SW6010B	Arsenic	0.05	mg/l	U	DNR	11
WD-2	08-29963-NY02P	SW6010B	Lead	0.02	mg/l	U	DNR	11
WD-2	08-29963-NY02P	SW8270D	1-Methylnaphthalene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	2-Methylnaphthalene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Acenaphthene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Acenaphthylene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Anthracene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Benzo(a)anthracene	1.1	ug/L		DNR	10
WD-2	08-29963-NY02P	SW8270D	Benzo(a)pyrene	1.3	ug/L		DNR	10
WD-2	08-29963-NY02P	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Chrysene	1.5	ug/L		DNR	10

QUALIFIED DATA SUMMARY TABLE
POS BNSF ROW
Quendall Terminal - Borings

Sample ID	Lab Sample ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	DV Qual RC
WD-2	08-29963-NY02P	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Dibenzofuran	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Fluoranthene	1.9	ug/L		DNR	10
WD-2	08-29963-NY02P	SW8270D	Fluorene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	DNR	10
WD-2	08-29963-NY02P	SW8270D	Naphthalene	1.8	ug/L		DNR	10
WD-2	08-29963-NY02P	SW8270D	Phenanthrene	2.9	ug/L		DNR	10
WD-2	08-29963-NY02P	SW8270D	Pyrene	2.9	ug/L		DNR	10
WD-2	08-29963-NY02PRE	SW8270D	1-Methylnaphthalene	1.4	ug/L		J	1
WD-2	08-29963-NY02PRE	SW8270D	2-Methylnaphthalene	2.2	ug/L		J	1
WD-2	08-29963-NY02PRE	SW8270D	Acenaphthene	1.5	ug/L		J	1,9
WD-2	08-29963-NY02PRE	SW8270D	Acenaphthylene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Anthracene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Benzo(a)anthracene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Benzo(a)pyrene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Benzo(b)fluoranthene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Benzo(g,h,i)perylene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Benzo(k)fluoranthene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Chrysene	1.2	ug/L		J	1
WD-2	08-29963-NY02PRE	SW8270D	Dibenz(a,h)anthracene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Dibenzofuran	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Fluoranthene	1.5	ug/L		J	1
WD-2	08-29963-NY02PRE	SW8270D	Fluorene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Indeno(1,2,3-cd)pyrene	1	ug/L	U	UJ	1
WD-2	08-29963-NY02PRE	SW8270D	Naphthalene	12	ug/L		J	1,9
WD-2	08-29963-NY02PRE	SW8270D	Phenanthrene	2.5	ug/L		J	1
WD-2	08-29963-NY02PRE	SW8270D	Pyrene	2.2	ug/L		J	1,9



EcoChem, INC.
Environmental Data Quality

APPENDIX C

COMMUNICATION RECORDS

Chris Ransom

From: Chris Ransom
Sent: Friday, November 21, 2008 11:02 AM
To: 'markh@arilabs.com'; 'Norm Puri'
Subject: BNSF SDG NM40

Hi Mark,

There are two water samples on the COC for NM40, Q2-D-W and WD-1. They were marked for SVOCs, NWTPH-DX, NWTPH-G/BTEX, Diss Metals and turbidity, however we do not have any data for SVOC or NWTPH-Dx. Were these analyses cancelled or perhaps errors on the COC? If you could let me know either way, I'd appreciate it.

Thanks

Chris

Christine Ransom
Sr. Project Chemist
EcoChem, Inc.
710 2nd Ave. Suite 660
Seattle, WA 98104
ph 206 233-9332 ext.109
fax 206 233-0114
cransom@ecochem.net

*SVOC: TPH-DX
Not analyzed
for these samples
CP 2/9/09*

Chris Ransom

From: Chris Ransom
Sent: Tuesday, November 04, 2008 10:15 AM
To: 'markh@arilabs.com'
Subject: POS BNSF SDG NM43

Hi Mark,

For the metals analyses of the sediment and soil samples in SDG NM43, both matrices were digested in the same prep batch. One of the sediment samples was used for the duplicate and matrix spike. The sediment and soil samples had different analyte lists though, and only the sediment analytes were reported for the method blank, LCS, Dup, and MS. Nickel was a target analyte for two of the soils, but since it was not on the list for the sediments, it was not reported for the QC samples. Could you please resubmit the summary forms for MD, LCS, Dup, and MS with nickel included?

Thanks

Chris

Christine Ransom
Sr. Project Chemist
EcoChem, Inc.
710 2nd Ave. Suite 660
Seattle, WA 98104
ph 206 233-9332 ext.109
fax 206 233-0114
cransom@ecochem.net

*Used raw data
to evaluate
CR 2/9/09*

2/12/2009

Chris Ransom

From: Chris Ransom
Sent: Monday, January 05, 2009 4:44 PM
To: 'Norm Puri'
Subject: FW: POS Quendall SDG NY02

Hi Norm,

I just wanted to let you know that these samples are being re-analyzed by ICP-MS in order to achieve the QAPP required reporting limits. We should have the data around the end of the week. Let me know if you have any questions.

Chris

From: Chris Ransom
Sent: Monday, December 08, 2008 12:58 PM
To: 'markh@arilabs.com'; 'Norm Puri'; 'Steve Perrigo'
Cc: Linda Bohannon
Subject: POS Quendall SDG NY02

Hi Mark,

We noticed that the water samples in SDG NY02 were analyzed for arsenic and lead by ICP (6010) instead of by ICP-MS (200.8). The results were reported in mg/L (ppm) instead of ug/L (ppb) with much higher reporting limits than are specified in the QAPP. For these Round 2 samples, the results for arsenic are all ND at 0.05 mg/L (50 ug/L) and the results for lead are all ND at 0.02 mg/L (20 ug/L). I believe these samples will need to be re-analyzed by ICP-MS in order to achieve the necessary MRLs of 0.2 ug/L for arsenic and 1.0 ug/L for lead. All Round 1 water samples (SDGs NM40 and NM43) were analyzed by ICP-MS with the appropriate reporting limits.

Could you please let me know as soon as possible if there is sufficient sample remaining for re-analysis and what the TAT would be?

Thank you,

Chris

Christine Ransom
Sr. Project Chemist
EcoChem, Inc.
710 2nd Ave. Suite 660
Seattle, WA 98104
ph 206 233-9332 ext.109
fax 206 233-0114
cransom@ecochem.net

2/12/2009

Chris Ransom

From: Chris Ransom
Sent: Wednesday, December 17, 2008 12:17 PM
To: 'markh@arilabs.com'
Cc: 'Sue Dunnihoo'; Linda Bohannon
Subject: POS BNSF Diesel data

Tracking:	Recipient	Delivery
	'markh@arilabs.com'	
	'Sue Dunnihoo'	
	Linda Bohannon	Delivered: 12/17/2008 12:17 PM

Hi Mark,

We seem to have found a problem with the diesel calculations in some of the POS BNSF data packages. The same curve affects SDGs NX66, NX71, NX79, and NY02. The diesel calibration curve was analyzed on 11/4/08 on instrument FID3A.I. The average RF value for the WA diesel range is 17742 in the summary table, however the samples were calculated using an RF value of 16911.5, which appears on all of the quant reports. The motor oil and surrogates all use the correct RRF values from this ICAL. Could you check into this and see if perhaps the WA diesel RRF value wasn't updated based on this ICAL?

Also, have you had a chance to check into the question regarding the metals data for SDG NY02? The water samples were analyzed for arsenic and lead by ICP and have much higher detection limits than specified in the QAPP. The samples may need to be re-analyzed by ICP-MS in order to achieve the necessary detection limits.

Please feel free to give me a call if you need any more information.

Thanks

Chris

Christine Ransom
Sr. Project Chemist
EcoChem, Inc.
710 2nd Ave. Suite 660
Seattle, WA 98104
ph 206 233-9332 ext.109
fax 206 233-0114
cransom@ecochem.net

*Curve submitted
1/2/09
OK 2/9/09*

2/12/2009

Chris Ransom

From: Sue Dunnihoo [sue@arilabs.com]
Sent: Friday, January 02, 2009 5:27 PM
To: Chris Ransom; Mark Harris
Subject: POS BNSF

Attachments: TPH_Curve_102908.pdf



TPH_Curve_102908
.pdf (780 KB)

Here's a copy of the curve that all the data was evaluated against. I think this should solve the issue without having to reprocess all the data against the other curve and redo all the reports, since the CCALs passed and were evaluated against this curve.

- Sue

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Susan D. Dunnihoo
Director, Client Services
ANALYTICAL RESOURCES, INC.
206-695-6207
sue@arilabs.com
www.arilabs.com